India Weather Review

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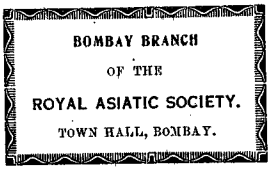

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GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW

ANNUAL SUMMARY FOR 1931

INTRODUCTION

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Published by Authority of the Government of India

UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.,

Director General of Observatories

CALCUTTA: GOVERNMENT OF INDIA
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INDIA WEATHER REVIEW, 1931

INTRODUCTION.

THE India Weather Review for each year from 1923 onwards is composed of the Monthly Weather Reports, which are published promptly at the end of each month, and the Annual Summary, which is intended primarily for scientific reference and must always be somewhat delayed in publication in order to allow time for the collection and analysis of statistics from all provincial rainfall stations and extra-Indian stations, as well as of logs of steamers used in the discussion of storms in the Indian seas.

Each Monthly Weather Report gives a short account of the weather of the month and includes the following three tables :—

I—mean monthly data of rainfall, temperature, humidity and cloud for the 15 chief political divisions,

II—similar data for the 33 sub-divisions,

III—monthly means for each of the 189 stations, which telegraph observations daily at 8 hrs. to headquarters ; these means form the basis of the divisional means appearing in the above-mentioned Tables I and II.

Beginning with the issue for 1928, the Annual Summary is published in seven parts as detailed below :—

Introduction ; Table of contents Introduction, and List of publications issued by the Department.

A.—Summary of Weather and Rainfall—

(i) Chief Features of Rainfall and of the most important storms. It also contains references about any features of temperature, pressure, etc., which happen to be outstanding during the year.

A.—Summary of Weather and Rainfall—*contd.*

(ii) General Remarks on the Weather of the year in a narrative form which have hitherto appeared under the headings General Remarks, Pressure, Temperature, Humidity, Cloud and Rainfall. They are followed by the usual tables of Pressure, Temperature, Humidity, Cloud and Rainfall for the chief divisions of India.

(iii) Three plates showing the monthly and seasonal distribution of rainfall and monthly departures of pressure.

B.—Snowfall.

C.—Storms and depressions. This describes all storms and depressions and contains articles on Western disturbances, local storms, and storm track charts.

D.—Annual Tables D_1 D_2 D_3 D_4 and D_5 corresponding to tables A, B, C and D of the Annual Summary up to 1927 containing the yearly data for each station and the monthly data of stations not reporting to the Indian Daily Weather Report. The additional climatic tables for Kodaikanal, Madras, Bombay and Trivandrum are given in the appendix.

E.—Seismic Records at Agra, Bombay, Calcutta and Kodaikanal.

F.—Errata sheets for the Monthly Weather Reports.

The articles and tables on solar and magnetic activity are omitted, but will appear in the Kodaikanal and Bombay publications. The tables of pilot balloon and sounding balloon data and of cloud direction frequencies have been excluded from this publication and are being published separately in monthly and annual volumes of " Upper Air data." The accounts of storms and of rainfall distribution that appear in the Annual Summary are based on much fuller information than was available at the time of publication of the Monthly Weather Reports. The rainfall summary is based on the data of about 3,100 stations, and tables A-7 to A-12 are, therefore, more accurate than the Tables I and II of each Monthly Weather Report.

Notes on conditions of exposure of instruments, on methods of reduction and on form of presentation of data.

The following notes concerning the methods of observation in India and of reduction and grouping of results will probably be of some help to users of this volume.

Territorial divisions.

The system of territorial divisions, which has remained unchanged since 1st April 1912, is as follows :—

Chief political divisions.	Sub-divisions.
	Bay Islands.
Burma	Lower Burma.
	Upper Burma.
Assam	Assam.
Bengal	Bengal.
Bihar and Orissa	Orissa.
	Chota-Nagpur.
	Bihar.
United Provinces	United Provinces, East.
	United Provinces, West.
Punjab	Punjab, East and North.
	Punjab, Southwest.
	Kashmir.
North-West Frontier Province	North-West Frontier Province.
	Baluchistan.
Sind	Sind.
Rajputana	Rajputana, West.
	Rajputana, East.
Bombay	Gujarat.
	Konkan.
	Bombay Deccan.
Central India	Central India, West.
	Central India, East.
Central Provinces	Berar.
	Central Provinces, West.
	Central Provinces, East.
Hyderabad	Hyderabad, North.
	Hyderabad, South.
Mysore	Mysore.
Madras	Malabar.
	Madras, Southeast.
	Madras Deccan.
	Madras Coast, North.

Barometric pressure.

Mercurial barometers on Fortin's principle with tubes of 0·4″ bore throughout have always been in use at most of the observing stations in India; but of late years the department has introduced an increasing number of Kew pattern barometers.

Aneroid barometers were in use at Ispahan, Tehran and Kashgar.

At Calcutta, Bombay, Poona, and Trivandrum the standards are Newman instruments, with adjustable scales and fiducial points, and tubes of large bore.

All instruments are compared at Calcutta before issue and their corrections determined to the Calcutta standard, which was, until 1910, about ·011″ higher than the Kew standard. The present difference is probably less than this, but the determination of the exact amount is a matter of difficulty (*see* the Departmental Memoirs, Vol. XXI, pp. 127-8, 1916).

The barometers are in all cases situated in masonry buildings to protect them as much as possible from rapid changes of temperature.

The heights above mean sea level of the barometers are given in Tables D-1, D-2, and D-3 in Part D. Those heights, which have been obtained accurately by actual measurement from datum levels determined by the Great Trigonometrical Survey of India, are given in ordinary type; the heights of a few stations have been determined barometrically and are printed in italics.

All readings are reduced to 32° F and to standard gravity.

Temperature.

There are now two standard methods of exposing thermometers in India. The old method lay in the use of large open-sided sheds to protect the instruments from extraneous radiation. A detailed description of the shed and of the methods of exposure will be found in the Instructions to Observers of the India Meteorological Department (1902 edition) and in the Annual Report on the Meteorology of India for the year 1887, page 37. The cost of the sheds and of their upkeep rose greatly after the war, and it became necessary to consider other devices for efficiently shading thermometers. Experiments with other types of shed and with various louvred Stevenson screens were carried out at Agra and described in Vol. XXIV, Part III, of the Memoirs of this department. As a result it was decided to replace all sheds in India by Stevenson screens, as opportunity offered. The pattern of screen adopted for use in India has free inside measurements of about 22″ length, 14″ depth and 17″ height, and is somewhat larger than the pattern approved in 1884 by the Thermometer Screen Committee of the English Meteorological Society, and larger too than the "small model" in common use in Germany. It is made of teak wood painted white and has four double louvred sides and a perforated top and bottom. A sloping extra cover of wood protects the top from sun and rain. The door on the north side has

14 louvres and the remaining sides have 16 louvres each. A beginning was made with this policy in the year 1923 and by the end of the year 1931 sheds were replaced by Stevenson screens at 192 stations. All thermometers in use have been verified by comparison with Kew standard thermometers at Calcutta and are restandardised from time to time; all thermometer readings are corrected to their true values.

Terrestrial Radiation.

Observations of terrestrial radiation thermometers were recorded during the year 1931 at Calcutta, Lahore, Srinagar, Poona, Kodaikanal and Madras and the results are given in Table D-1 and the Appendix. The normals used are based on more than 50 years' data except at Srinagar and Kodaikanal where the records extended over about 30 years.

Surface winds.

All anemometers used in India are compared before issue with the standard Beckley anemograph at the Alipore Observatory, Calcutta, but as only the instruments with small corrections are issued and as it is impracticable to prevent slight alterations in exposure resulting from growth of trees or erection of buildings, it has been considered unnecessary to apply any correction to the observed values.

Up to 1911 the factor representing the ratio of air movement to travel of Beckley cups had in India, as in other countries, been taken at 3·0; but from that year the generally accepted factor of 2·2 has been used (*see* note on page 8, Monthly Weather Review, January 1912). The wind data published consist of observations of the direction of the wind at 8 hrs. and of the mean hourly air movement as registered by Robinson anemometers during the 24 hours ending at 8 hrs. For stations in Tables D-1 and D-2 the wind data include for each month and year the frequency of the wind direction from 8 compass points at both the hours of observation. The resultant direction is calculated in all cases by the use of Lambert's formula in which equal values are given to each wind observation irrespective of velocity.

Humidity and cloud.

The hygrometric data are calculated by means of the departmental "Tables for the reduction of meteorological observations in India." The proportion of cloud is estimated in tenths of the sky expanse, an overcast sky being denoted by 10 and a cloudless sky by 0.

Rainfall.

Symons's raingauges are now used at all raingauge stations, with the exception of those in Mysore and Travancore. The time of measuring rainfall is 8 hrs., local time, throughout India, and the amounts then registered give the rainfall of the previous 24 hours.

The rainfall data for each province are generally tabulated in the office of the Director of Land Records, or other officer in the province, and published in the provincial gazettes. The data of Baluchistan, Kashmir, Rajputana, the North-West Frontier Province and Central India are, however, published by the Poona Meteorological Office. These provincial tables are collected together and are issued annually in a separate volume entitled "Rainfall of India". The forty-first volume, that of 1931, contains the whole rainfall data of about 3,100 stations which are utilised in preparing Tables A-7 to A-12 on pages A-12 to A-22. In these provincial tables and in the rainfall observations at the meteorological observatories published in this volume a "rainy day" is taken to be one on which 0·10 inch or more of rain is recorded.

Tables.

Table D-1 contains the monthly and annual means of observations recorded at 10 hrs. (L.T.) and 16 hrs. (L.T.) or 17 hrs. (I.S.T.) at 14 stations. The daily means of pressure, temperature, humidity and vapour tension given in this table have been reduced to true mean of the day by the application of appropriate corrections given in Vol. XVII of the Memoirs of the Indian Meteorological Department or obtained later from available hourly observations down to 1920. The daily means of Kodaikanal are those obtained from the hourly records of self-recording instruments corrected by eye readings. All the data of Bombay with the exception of cloud are also taken from autographic charts. The departures from normal are based upon normal values derived from all available data down to 1899 as published in the Indian Meteorological Memoirs, Vol. XVII. In finding the monthly means of maximum and minimum temperatures in this table, a day is reckoned from midnight to midnight; in all other tables it is reckoned from 8 A.M. to 8 A.M. Thus the month will end at midnight ending on the last day of the month in the former case and at 8 A.M. of the last civil day of the month in the latter. The small differences between the monthly means for the same stations in this table and in the other tables are due to this cause. Table D-2 contains the monthly and annual means of 4 hrs. and 14 hrs. (G. M. T.) observations recorded at 15 stations in Persia and the adjoining areas.

Table D-3 contains the annual means of 8 hrs. observations recorded at 181 stations whose monthly means are published in Table III of the Monthly Weather Reports, as well as the monthly and annual means of 44 non-reporting stations in India and the neighbouring countries. Table D-4 gives similar data from observations recorded at 18 fourth class observatories. The departures from the normal given in these tables are based upon the normal values determined from all available data down to 1920. Table D-5 gives monthly and annual rainfall at 29 fifth class stations.

PUBLICATIONS OF THE INDIA METEOROLOGICAL DEPARTMENT.

(Complete list, including those publications which are now out of print.)

The Indian Meteorologist's Vade Mecum—	Henry F. Blanford.
Part I, 2nd Edition (1883) . . . . . Rs. 3*	
Part II (1877) . . . . . Rs. 5*	
Instructions to Observers of the Indian Meteorological Department, 2nd Edition, (1902) . . . . Rs. 3*	Sir John Eliot.
Tables for the Reduction of Meteorological Observations in India, 3rd Edition (1925) . . . . . Rs. 5-8	Departmental.
Handbook of Cyclonic Storms in the Bay of Bengal for use of Sailors;	Sir John Eliot.
Vol. I, Text, 2nd Edition (1900) . . . . Rs. 4*	
Vol. II, Plates, 2nd Edition (1901) . . Rs. 1-8*	
CYCLONE MEMOIRS—	
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Part II. Bay of Bengal Cyclone of August 21st to 28th, 1888. (1890) . . . . . Rs. 3	Ditto.
Part III. Bay of Bengal Cyclones of September 13th to 20th and October 27th to 31st, 1888, and Arabian Sea Cyclone of November 6th to 9th, 1888. (1890) Rs. 5	Ditto.
Part IV. An enquiry into the nature and course of storms in the Arabian Sea and a catalogue and brief history of all recorded storms in the Arabian Sea from 1848—1889. (1891) . . . . . Rs. 3	W. L. Dallas.
Part V. Account of three Cyclones in the Bay of Bengal and Arabian Sea during November, 1891. (1893) Rs. 3*	Sir John Eliot.
Report of the Midnapore and Burdwan Cyclone of the 15th and 16th of October, 1874. (1875) . . . Rs. 3*	W. G. Wilson.
Report of the Vizagapatam and Backergunge Cyclones of October, 1876. (1877) . . . . . Rs. 3*	Sir John Eliot.
Report on the Madras Cyclone of May, 1877. (1879) Rs. 3*	Ditto.
Monthly weather charts of the Bay of Bengal and adjacent sea north of the equator, showing mean pressure, winds and currents. (1886) . . . . . Rs. 5*	Henry F. Blanford.
Monthly weather charts of the Arabian Sea and the adjacent portion of the North Indian Ocean, showing mean pressure, winds and currents. (1888) . . . . . Rs. 5	Sir John Eliot.
Charts of the Bay of Bengal and adjacent sea north of the equator, showing the specific gravity, temperature and currents of the sea surface. (1887) . . . . Rs. 1-8	W. L. Dallas.
Climatological Atlas of India. (1906) . . . Rs. 27*	Sir John Eliot.
Meteorological Atlas of the Indian seas and the North Indian Ocean. (1908) . . . . . Rs. 13*	W. L. Dallas.
Daily weather reports and charts of the Indian monsoon area for the years 1893 to 1899 . . each month, Re. 1*	Departmental.
Normal weather or pilot charts of the Indian monsoon area for 8 A.M. for each month, November, 1900 to August, 1908 each month, Annas 4*	Ditto.
Reports on the Meteorology of India for the years 1875—1890 (16 volumes)† . . . . . each Rs. 10	Ditto.
Storm tracks in the Bay of Bengal—A series of monthly charts for the period 1891—1923. (1926) . Rs. 3-6 or 5*s.* 9*d.*	C. W. B. Normand.
Storm tracks in the Arabian Sea. (1926) . Rs. 3-8 or 6*s.*	Ditto.
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Part IV. Account of the south-west monsoon storms generated in the Bay of Bengal during the years 1877 to 1881 . . . . . Rs. 2	Ditto.
Part V. Observations of temperature and humidity at a height of 40 feet above the ground at Alipore Observatory, Calcutta . . . . . Re. 1	S. A. Hill.
Vol. III—	
A full discussion of the rainfall of India and cognate subjects. Normal or average rainfall; anomalous variations of the rainfall; two appendices, index and plates . . . . . Rs. 8*	Henry F. Blanford.
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* Out of print.

† Copies for the years 1875, 1876, 1878 to 1881, 1884, 1887 and 1890 are out of print.

INDIAN METEOROLOGICAL MEMOIRS—(*contd.*)

Vol. IV—(*contd.*)

Part V. The cyclonic storms of November and December, 1886, in the Bay of Bengal.	Sir John Eliot.
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METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW

ANNUAL SUMMARY FOR 1931

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SUMMARY OF WEATHER AND RAINFALL

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CALCUTTA: GOVERNMENT OF INDIA
CENTRAL PUBLICATION BRANCH
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ANNUAL SUMMARY, 1931.

PART A.

SUMMARY OF WEATHER AND RAINFALL.

SECTION I.

Chief Features of Weather in 1931.

1. During the cold weather months, January and February, rainfall was within 23 per cent of the normal in Bengal, the United Provinces, the North-West Frontier Province and the Central Provinces and in moderate or large defect elsewhere. Averaged over the plains of India, the rainfall of the period was in defect by 20 per cent.

2. The principal feature of the hot weather months, March to May, was that thunderstorms were less active than usual in and around central India, where precipitation was in moderate or large defect. Over the country as a whole, there was a defect of 20 per cent in the season's rainfall.

3. Excepting an almost rainless area in and immediately around Sind, the rainfall of the monsoon season, June to September, was fairly well-distributed over the whole country. The monsoon began weakly in June and became active in July ; it strengthened very much in August and again became normal in September. Averaged over the plains of India, the season's rainfall was in excess by 4 per cent.

In June, a spell of hot weather prevailed over the region extending from Gujarat and the Deccan to Bengal between the 3rd and 14th, from Gujarat and east Rajputana to the west Central Provinces during the last fortnight and in the United Provinces throughout the month.

4. The retreating southwest monsoon period, October to December, was characterised by excessive precipitation in and around central India. Averaged over the plains of India, the total rainfall of the period was in excess by 46 per cent.

5. Taking the year as a whole, rainfall over the country was within 25 per cent of the normal in all subdivisions, except in Sind where there was a large defect and in west Rajputana, Berar, the Konkan and the Bombay Deccan, where there was a moderate excess.

SECTION II.

General Remarks on the weather of 1931.

I. *The cold weather period, January and February.*—In ***January,*** weather was drier than usual on the plains of northwest India despite the eastward passage of eight western disturbances. The northeast monsoon was generally weak during the month.

The six western disturbances which entered India from the west in ***February*** gave more than the normal amount of precipitation in the hills of northwest India and in the United Provinces and northeast India.

The total rainfall during the cold weather period was in large excess in Chota Nagpur and Baluchistan, in moderate excess in Orissa, in slight excess in Bengal, Bihar and Kashmir and normal in the North-West Frontier Province and the east and west Central Provinces. It was in slight defect in the United Provinces and southeast Madras and in moderate or large defect elsewhere.

Although high day temperatures prevailed in northern India in January, the month of February was characterised by cool days and nights in northwest India and by cool days in the United Provinces and central India. The mean maximum temperature was markedly above normal in the United Provinces, Kashmir, east Central India and the west Central

Provinces in January and below it in the Punjab, the North-West Frontier Province, Baluchistan, Sind and Rajputana in February; the minimum temperature was appreciably above normal in Kashmir in January and in Berar and north Hyderabad in February.

Cloud amount was considerably above normal in the North-West Frontier Province and the Bombay and the Madras Presidencies in January and in Bengal, Bihar and Orissa, the United Provinces, northwest India and Central India in February.

Humidity was in marked defect in Sind, Rajputana and the Bombay Presidency in January.

II. *The hot weather period, March to May.*—The five western disturbances which entered northwest India during ***March*** failed to give the usual amount of precipitation there except in the Punjab. Scattered thundershowers occurred in the Central Provinces intermittently between the 9th and 21st and rainfall was normal in the eastern parts of the province.

Although eight western disturbances entered India during ***April***, yet the associated precipitation was generally in large defect in northwest India. Thunderstorms were unusually active in southeast Madras where rainfall was in large excess, and they were also active in Malabar, the Bombay Deccan and Assam.

The three western disturbances which entered northwest India during ***May*** caused more than normal precipitation there except in east Rajputana and Gujarat. In connection with a temporary advance of the monsoon in the Andaman Sea, a storm formed in the Bay in the beginning of the third week. Thunderstorms were active in Assam, Bengal and south Hyderabad.

The total rainfall during the hot weather period was within 25 per cent of the normal in Assam, Bengal, the Punjab, Sind, west Rajputana, south Hyderabad, Mysore, Malabar, southeast Madras and the Madras Deccan, and in moderate to large defect elsewhere.

Temperatures were above normal in north India during the last week in March and in north India excepting Orissa, Bengal and Assam and in the Deccan during the last week in April. The mean maximum temperature was appreciably above normal in the east United Provinces, the North-West Frontier Province and east Central India in April and below it in Kashmir in May; the mean minimum was markedly above normal in the southwest Punjab, Berar and north Hyderabad in April.

A well-marked high pressure area (relative to the normal distribution of pressure) lay over Rajputana in March.

Cloud amount was considerably above normal in Bihar and Orissa, the Bombay Presidency, the Central Provinces and Hyderabad in March and in the Punjab and the North-West Frontier Province in May and below it in Sind in March and in Central India in May.

Air was considerably drier than usual in the North-West Frontier Province, Rajputana, Central India and the Bombay Presidency in March, in the United Provinces, the Punjab, the North-West Frontier Province, Rajputana and Central India in April and in the Central Provinces in May.

III. *The southwest monsoon period, June to September.*—The Bay monsoon appeared on the Burma coast on the 3rd ***June***, the date of onset being later than usual by about ten days. It extended in Upper Burma and northeast India in the course of the next ten days, a temporary advance also occurring in the United Provinces and the east and north Punjab on the 14th. The monsoon current was, however, shallow throughout the month and the associated rainfall was normal only in Upper Burma and Assam. The Arabian Sea monsoon also advanced in a shallow current over Malabar and the south Konkan on the 4th and extended into the north Konkan, the Deccan, Gujarat, the central parts of the country and Rajputana on the 13th. It deepened and strengthened during the last week of June, and on the whole this branch of monsoon, after a weak start, was normally active in the Peninsula during the second fortnight.

The activity of the monsoon generally over the country during the first week in ***July*** was associated with a depression, which formed in the Bay and moved through the central parts of the country to the Punjab. Thereafter although no depressions formed in the Bay, the well-marked seasonal trough of low pressure over the Gangetic plain was active causing a fairly good distribution of rainfall, so that the monsoon was normal over the country as a whole during this month. Vigorous monsoon in the Konkan from the 12th to 15th and again from the 23rd to 25th is reported to have caused considerable damage to paddy crop in the Ratnagiri District. Due to an abnormal rise in the level of Brahmaputra river, serious floods occurred in east and north Bengal with considerable damage to crops and property.

During the first two weeks in ***August***, the monsoon was generally active over the country except along and near the northwest frontier. Thereafter the west or northwestwards movement to Rajputana of a depression and a storm from the Bay and another depression from south Bengal was responsible for an active monsoon with widespread locally heavy rain along and near the track of these disturbances; so that the total rainfall of the month over the plains of India was in excess by 21 per cent. Heavy rain during the second fortnight caused floods

and damage to crops in Cochin State and Coorg. A goods train is reported to have fallen into a breach caused by heavy rain near Godhra on the B., B. & C. I. Railway on the 23rd.

A depression from the Bay which crossed the Orissa coast on the 1st ***September*** and filled up after persisting there for three days caused strong monsoon from Upper Burma to the United Provinces and in and near the Punjab Hills during the first week and in the Central Provinces for the first five days of the month. A temporary withdrawal of the monsoon occurred in Central India after the 5th and in the Punjab and the United Provinces after the 10th. The monsoon was weak in Lower Burma during the first fortnight. Fairly widespread thunderstorm rain occurred in the south Deccan and south Madras during the second week. The monsoon strengthened in the south Bay during the second fortnight and one depression and two low pressure waves passed inland over the north Madras coast. These were responsible for a strengthening of the monsoon in the Peninsula during the third week and its revival in Hyderabad and central India during the second fortnight ; the monsoon also strengthened in southwest Bengal, Orissa and Chota Nagpur and revived in the United Provinces and in and near the Punjab Hills during the last week of the month. Failure of monsoon rains in Sind caused famine in Thar Parker District whence, it is reported, many people migrated to other parts.

The total rainfall during the southwest monsoon period was in large defect in Baluchistan and Sind, in moderate defect in the North-West Frontier Province, in moderate excess in west Rajputana, Berar, the Konkan and Malabar and within 20 per cent of the normal elsewhere.

In June a spell of hot weather prevailed over the region extending from Gujarat and the Deccan to Bengal between the 3rd and 14th, from Gujarat and east Rajputana to the west Central Provinces during the last fortnight and in the United Provinces throughout the month. Weak monsoon along and near the northwest frontier during the first fortnight in August was also associated with a spell of hot weather there. The mean maximum temperature was markedly above normal in Bihar and Orissa, the United Provinces, Central India and the Central Provinces in June, in east Central India in July and below it in Kashmir in the latter month.

A well-marked high pressure area (relative to the normal distribution of pressure) lay over the North-West Frontier Province and Sind in June, while in August a well-marked low pressure area lay over the country except in Hyderabad, Mysore and the Madras Presidency.

Cloud amount was considerably below normal in the United Provinces, Sind, Rajputana and Central India in June and above it in the United Provinces in September and in the North-West Frontier Province in June and September.

Humidity was in marked defect in Bihar and Orissa, the United Provinces, the Punjab, Rajputana, Central India and the Central Provinces in June.

IV. *The period of retreating southwest monsoon, October to December.*—The month of ***October*** was characterised by (*a*) an excess of precipitation throughout the country except in Upper Burma, Assam, Baluchistan, South Madras and the South Deccan in connection with (1) the passage inland over the north Madras coast of a low pressure wave and its subsequent northwestward movement, (2) the movement of a storm from the Bay to the United Provinces hills through the Central Provinces, (3) the movement of a depression from the central Bay to the head of the Bay and (4) the passage of a storm from the Bay to the Deccan through the north Madras coast ; and (*b*) the withdrawal of the southwest monsoon and the transition to the northeast monsoon type of weather during the second fortnight. Heavy rain in the Vizagapatam District caused considerable damage to crops, property and the railway lines and loss of many lives in connection with the storm from the Bay which moved to the United Provinces. Three western disturbances passed away eastwards through Kashmir after causing fairly good precipitation in and near that province.

Although no storms or depressions formed in the Bay during ***November,*** the northeast monsoon was active in the Madras Presidency and Mysore. The four western disturbances which passed away eastwards through Kashmir failed to give normal precipitation there.

During ***December,*** there was abundant rainfall in the Peninsula in connection with the formation of a depression and a storm in the southwest Bay of Bengal, the former passed out into the southeast Arabian Sea and moving northwards filled up off the Konkan coast and the latter filled up after crossing the coast south of Negapatam. Heavy rain which fell in southeast Madras in connection with the depression and the storm caused considerable damage to crops and railway lines. The precipitation in northwest India, on the other hand, was in defect, only two western disturbances passing eastwards through Kashmir.

The total rainfall during the retreating southwest monsoon period was in large defect in Baluchistan, in moderate defect in Kashmir, in slight defect in Lower Burma, Mysore, Malabar and the Madras

Deccan ; it was normal in Upper Burma, Assam, the North-West Frontier Province and south Hyderabad, in slight excess in the Bay Islands and the east and north Punjab, in moderate excess in Bengal, Chota Nagpur, Bihar and southeast Madras and in large excess elsewhere.

The mean maximum temperature was markedly below normal in east Rajputana, west Central India, Berar, the west Central Provinces and north Hyderabad and the minimum above it in the southwest Punjab and Kashmir in October.

Cloud amount was markedly above normal over the country except in Burma, Assam, Mysore and Madras in October, in Bihar and Orissa, the North-West Frontier Province, Sind, Hyderabad and Mysore in November and in Bengal, Bihar and Orissa, Bombay, Central India, Hyderabad, Mysore and Madras in December and below it in Burma in November and in the Punjab and Sind in the last month.

Humidity was in marked excess in the United Provinces, the Punjab, the North-West Frontier Province, Rajputana, Central India, the Central Provinces and Hyderabad in October, in the Central Provinces and Hyderabad in November and in Mysore in December ; it was in marked defect in the North-West Frontier Province in December.

TABLE A-1.—*Departure of the mean monthly and annual pressure from the normal in the 15 chief political divisions of India in 1931.*

Division.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
Burma . . .	—·003	—·007	+·023	+·008	+·005	—·003	—·032	—·062	+·002	+·003	+·025	—·014	—·005
Assam	+·001	—·002	+·039	+·003	+·006	+·001	+·001	—·072	+·008	—·001	+·005	—·021	—·003
Bengal	+·001	+·014	+·041	—·004	+·001	+·007	+·012	—·081	+·010	+·003	+·023	—·020	+·001
Bihar and Orissa . . .	+·003	+·011	+·040	—·008	—·008	+·009	+·013	—·074	+·008	+·001	+·017	—·014	0
United Provinces . . .	—·001	+·015	+·036	—·013	—·018	+·001	—·006	—·070	—·008	+·007	+·011	—·015	—·005
Punjab	0	+·033	+·043	—·004	—·003	+·031	—·005	—·058	—·007	+·020	+·012	—·001	+·005
N.-W. F. Province . .	0	+·025	+·041	+·001	—·001	+·050	—·001	—·064	—·017	+·019	+·012	—·007	+·005
Sind	—·004	+·041	+·046	+·004	—·003	+·067	—·003	—·077	—·019	—·006	+·013	—·013	+·004
Rajputana	+·003	+·025	+·053	+·015	+·004	+·046	+·007	—·077	—·003	—·001	+·029	+·004	+·009
Bombay	—·004	—·001	+·031	+·008	+·001	+·035	+·001	—·077	—·016	—·031	+·011	—·013	—·005
Central India . . .	—·001	+·002	+·035	+·007	—·006	+·025	+·002	—·085	—·008	—·020	+·019	—·005	—·003
Central Provinces . . .	+·004	—·011	+·031	+·004	—·009	+·013	+·005	—·079	—·019	—·038	+·020	—·005	—·007
Hyderabad	+·017	+·004	+·034	+·020	+·001	+·016	+·022	—·049	—·009	—·028	+·024	—·001	+·004
Mysore	+·009	+·011	+·031	+·019	+·005	+·010	+·016	—·034	—·012	+·001	+·010	—·021	+·004
Madras	+·003	+·010	+·033	+·012	—·001	—·005	+·021	—·037	—·015	—·010	+·016	—·031	0
Mean of India . . .	+·001	+·009	+·036	+·005	—·002	+·017	0	—·067	—·006	—·006	+·018	—·012	—·001

TABLE A-2.—*Monthly and annual means of maximum and minimum temperatures*

Division.	January.				February.				March.				April.				May.				June.			
	Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.	
	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.
Burma	85·5	+2·3	61·0	+0·8	90·0	+3·0	65·1	+2·3	92·3	+0·3	68·7	0	95·8	+1·1	76·0	+1·8	93·2	+0·9	76·5	+0·5	89·5	+1·7	77·0	+1·3
Assam	75·0	+1·5	54·1	+2·7	77·0	+0·9	57·2	+2·5	84·9	+2·3	61·7	+0·4	85·1	+0·9	69·1	+1·7	85·0	—1·6	71·4	—0·7	87·7	—0·5	75·8	—0·1
Bengal	80·4	+3·4	56·3	+2·1	81·1	+0 2	59·7	+1·9	89·5	+0 5	65·4	—1·0	94·4	+1·4	75·6	+2·3	90·9	—1·2	75·7	—0·2	92·3	+2·9	79·0	+1·2
Bihar and Orissa	80·1	+3·1	54·0	+1·3	80·0	—1·5	59·1	+2·2	90·8	—0·7	64·3	—1·0	102·8	+3·1	75·4	+1·7	100·8	+0·9	78·2	+0·5	101·8	+7·6	81·4	+2·7
United Provinces	76·8	+4·5	48·6	+1·3	73·6	—3·2	52·1	+1·3	89·0	+0·4	58·4	—1·5	103·5	+4·0	71·9	+1·7	105·6	+1·8	78·7	+0·9	106·5	+5·9	82·0	+0·9
Punjab	71·1	+3·0	48·2	+0·7	67·1	—4·6	43·7	—2·5	82·8	+0·1	54·4	—1·4	98·2	+3·6	68·8	+2·8	102·9	—1·0	75·0	—0·5	106·5	+0·7	79·8	—1·9
N.-W. F. Province	66·7	+0·8	40·8	+0·9	63·5	—5·3	40·2	—3·4	81·4	+3·1	51·8	—1·5	94·0	+4·9	65·8	+3·1	100·1	—1·1	71·4	—0·9	106·8	—0·4	78·3	—1·1
Sind	75·3	+0·1	50·9	0	72·5	—6·4	52·7	—1·9	87·6	—0·6	63·1	—0·6	98·8	+3·3	74·4	+2·5	102·3	—0·4	79·2	+0·7	102·9	—0·1	82·9	—0·1
Rajputana	78·0	+3·2	50·2	+1·3	73·7	—5·1	51·2	—1·3	89·9	0	60·6	—1·9	102·8	+2·9	75·3	+2·3	106·1	—0·1	81·6	+0·5	106·6	+2·5	84·9	+1·7
Bombay	86·2	+1·9	69·5	+1·0	86·6	—0·1	61·9	+1·3	92·2	—0·3	66·8	—0·3	98·8	+1·9	75·3	+2·0	98·9	+0·9	77·7	+0·9	95·3	+3·0	78·5	+1·5
Central India	81·4	+4·9	50·6	+2·1	78·5	—2·1	53·1	+1·3	91·2	0	59·1	—1·8	103·5	+3·1	72·0	+1·2	106·4	+1·7	79·4	+1·3	104·7	+5·8	81·5	+2·0
Central Provinces	84·2	+2·9	54·9	+1·6	86·9	+1·2	60·4	+3·3	94·1	—0·6	65·6	+0·5	104·8	+2·4	76·3	+2·6	107·6	+2·0	81·8	+2·3	102·8	+5·8	80·5	+2·7
Hyderabad	88·5	+0·9	60·4	+0·5	93·1	+2·4	67·8	+3·9	98·2	+0·5	73·1	+3·0	104·3	+1·8	79·6	+3·3	107·2	+2·9	80·8	+1·5	98·2	+2·5	77·2	+1·4
Mysore	84·0	+0·9	61·0	+1·1	91·4	+3·3	68·8	+0·6	95·7	+2·6	69·6	+2·1	97·4	+2·3	72·7	+2·0	96·3	+3·7	71·4	+1·3	87·5	+2·2	69·7	+1·4
Madras	84·0	—0·3	67·9	+0·8	88·0	—0·7	70·3	+0·7	92·0	—0·9	74·7	+1·2	94·7	—0·9	79·3	+1·5	97·3	+0·3	80·9	+1·5	94·7	+0·9	79·6	+1·4

with their departures from normal in the 15 chief political divisions of India in 1931.

JULY.				AUGUST.				SEPTEMBER.				OCTOBER.				NOVEMBER.				DECEMBER.				YEAR.			
Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.	
Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.
86·6	—0·1	75·6	+0·3	86·9	+0·6	76·4	+1·1	87·3	+0·1	76·0	+0·9	87·7	+0·1	74·3	+0·6	85·2	—0·1	67·1	—1·7	83·3	+1·4	65·0	+2·6	88·6	+0·9	71·6	+0·9
87·8	—0·7	77·1	—0·2	90·8	+2·4	78·6	+1·2	86·9	—1·0	75·4	—0·8	88·0	+2·3	72·8	+1·6	81·0	+0·3	61·5	—0·1	76·2	+1·5	54·9	+2·1	88·8	+0·7	67·5	+0·9
87·5	—0·7	78·1	—0·3	89·1	+1·4	79·5	+1·3	88·7	+0·5	78·1	+0·4	87·8	+0·3	74·9	+1·1	82·5	—0·3	63·8	—0·6	79·2	+1·9	58·4	+2·8	87·0	+0·9	70·4	+0·9
88·5	—0·8	77·4	—0·6	88·8	+0·6	78·6	+0·9	88·7	—0·1	77·3	+0·3	86·6	—1·5	72·8	+1·3	82·2	—0·3	60·4	—0·6	77·8	+0·9	53·3	+0·8	89·0	+0·9	69·4	+0·8
94·0	+1·7	78·9	—0·2	91·1	+1·3	78·8	+0·9	89·6	—1·4	76·1	+0·4	87·9	—2·5	68·9	+2·6	82·6	+0·1	54·4	—0·8	76·1	+1·8	48·8	+1·5	89·7	+1·2	66·5	+0·8
98·1	—1·7	79·0	—2·2	97·3	+0·5	80·8	+1·2	95·7	—0·8	75·1	+0·3	91·1	—2·1	66·4	+3·7	83·1	+0·9	50·9	+0·5	74·5	+3·1	42·9	+0·3	89·0	+0·1	63·4	+0·1
103·0	—0·5	79·4	—1·7	103·9	+3·8	82·8	+3·1	98·8	+1·1	74·8	+1·3	91·0	0	62·4	+2·7	81·0	+1·5	48·0	+0·9	72·6	+3·5	40·8	+0·5	88·5	+0·9	61·3	+0·8
100·0	+1·2	83·8	+1·5	98·8	+3·5	83·0	+3·2	96·4	+0·9	77·0	+0·6	94·1	—0·7	70·6	+1·5	88·2	+1·2	61·2	+2·0	79·8	+2·1	54·1	+2·3	91·4	+0·3	69·4	+1·0
96·7	+0·7	80·3	+0·2	91·0	—1·1	78·5	+0·6	93·3	—0·7	75·3	—0·5	90·8	—3·9	68·7	+0·8	86·6	+0·4	56·3	—0·7	79·2	+1·8	51·2	+1·2	91·3	+0·1	67·8	+0·8
88·0	+1·1	76·0	+0·6	85·9	—0·2	75·5	+1·4	87·1	—0·1	73·8	+0·7	88·1	—2·6	70·8	+0·3	88·3	—0·1	66·1	+1·7	84·6	—0·3	60·6	+1·5	90·0	+0·4	70·3	+1·1
91·6	+3·5	76·6	+0·7	85·6	+0·2	75·4	+1·1	87·7	—0·1	73·4	+0·7	86·6	—2·9	65·9	+1·1	82·4	—0·6	52·6	—1·7	77·4	+0·8	48·8	+0·7	89·7	+1·1	65·7	+0·7
88·2	+1·3	74·3	0	84·4	—0·7	74·4	+1·0	86·9	—0·5	73·5	+0·9	85·0	—4·0	68·9	+2·2	82·5	—1·6	58·9	+0·8	79·2	—0·9	53·0	+1·0	90·5	+0·6	68·6	+1·6
88·1	—0·6	73·2	0	87·4	+0·2	73·5	+1·2	86·8	—1·0	72·7	+0·6	86·8	—3·1	70·4	+0·8	84·3	—2·0	64·2	+0·8	82·5	—1·4	59·0	+0·5	92·0	+0·3	71·0	+1·5
83·4	+1·1	68·2	+1·0	82·6	+0·1	68·4	+1·5	83·6	+0·1	67·1	+0·5	85·9	+2·1	67·1	+0·5	82·4	+0·7	65·3	+1·6	79·8	—1·1	62·6	+2·6	87·5	+1·5	67·2	+1·3
90·4	—0·7	77·0	+0·2	90·4	0	77·4	+1·2	89·3	—0·8	76·4	+0·8	89·0	+0·3	75·5	+1·1	85·0	—0·7	71·9	+0·6	82·9	—1·3	69·6	+2·0	89·9	—0·4	75·1	+1·1

TABLE A-3.—*Monthly and annual means of maximum and minimum temperatures*

SUB-DIVISION.	JANUARY.				FEBRUARY.				MARCH.				APRIL.				MAY.				JUNE.			
	Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.	
	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.
1. Bay Islands .	84·1	—2·0	76·4	+0·8	86·0	—1·6	75·2	+0·2	89·7	—0·6	76·0	—0·3	93·2	+1·0	79·6	+0·9	89·1	+0·4	79·4	+1·0	86·2	+0·4	77·8	0
2. Lower Burma .	87·8	+2·4	66·6	+1·6	90·8	+2·6	69·6	+2·5	91·6	+0·1	72·1	+0·4	93·7	+0·3	77·7	+1·7	91·6	+1·5	77·6	+0·9	86·8	+0·9	77·0	+1·2
3. Upper Burma .	82·1	+2·1	53·0	—0·2	88·8	+3·6	58·6	+1·9	93·2	+0·5	65·9	—0·4	98·7	+2·0	73·5	+2·0	95·5	+0·2	74·9	0	93·2	+2·6	77·2	+1·5
4. Assam . .	75·0	+1·5	54·1	+2·7	77·0	+0·9	57·2	+2·5	84·9	+2·3	61·7	+0·4	85·1	+0·9	69·1	+1·7	85·0	—1·6	71·4	—0·7	87·7	—0·5	75·8	—0·1
5. Bengal . .	80·4	+3·4	56·3	+2·1	81·1	+0·2	59·7	+1·9	89·5	+0·5	65·4	—1·0	94·4	+1·4	75·6	+2·3	90·9	—1·2	75·7	—0·2	92·3	+2·9	79·0	+1·2
6. Orissa . .	84·7	+2·7	57·9	+0·8	86·8	+0·1	64·7	+2·5	94·2	—0·7	69·7	+0·1	102·8	+2·4	77·2	+1·0	102·9	+1·5	80·3	+0·6	101·5	+6·5	82·0	+2·3
7. Chota-Nagpur .	78·6	+2·1	54·4	+2·7	78·2	—2·5	58·4	+2·3	88·1	—2·3	63·4	—1·0	101·9	+2·9	75·0	+2·1	101·7	+1·0	76·8	+0·1	103·4	+10·9	80·2	+3·7
8. Bihar . .	77·9	+3·6	51·6	+1·1	76·9	—1·9	56·1	+2·0	90·0	0	61·5	—1·7	102·2	+3·6	74·5	+2·0	99·2	+0·5	77·6	+0·7	101·3	+6·9	81·4	+2·5
9. United Provinces, East.	77·7	+4·1	49·0	+2·2	75·3	—3·0	53·5	+2·1	90·9	+0·7	59·9	—0·8	105·1	+4·2	73·2	+2·1	105·8	+1·7	79·8	+1·7	106·8	+6·6	83·0	+1·7
10. United Provinces, West.	76·1	+5·0	47·3	+0·5	71·9	—3·4	50·6	+0·5	87·1	+0·1	57·0	—2·1	102·0	+3·9	70·7	+1·3	105·4	+1·8	77·4	0	106·3	+5·3	80·9	0
11. Punjab, East and North.	71·3	+3·7	43·3	+0·4	67·3	—4·1	44·0	—2·4	82·5	—0·1	53·8	—2·0	98·2	+3·5	67·8	+1·9	102·7	—0·6	74·6	—0·4	106·3	+1·5	79·0	—1·8
12. Punjab, South-west.	70·9	+2·0	42·8	+1·1	66·8	—5·5	43·1	—2·6	83·3	+0·4	55·4	—0·5	98·3	+3·9	70·4	+4·2	103·3	—1·6	75·7	—0·8	107·2	—0·4	81·2	—2·1
13. Kashmir . .	39·1	+5·3	21·2	+6·8	35·5	—2·2	18·9	+2·3	50·5	+1·9	28·2	+0·6	63·1	+3·5	41·1	+3·6	76·9	—4·2	46·6	+0·2	75·0	—3·2	49·9	—2·3
14. N.-W. F. Province.	66·7	+0·8	40·8	+0·9	63·5	—5·3	40·2	—3·4	81·4	+3·1	51·8	—1·5	94·0	+4·9	65·8	+3·1	100·1	—1·1	71·4	—0·9	106·8	—0·4	78·3	—1·1
15. Baluchistan .	60·9	+0·6	36·7	+1·4	53·1	—9·1	35·4	—2·0	71·7	+0·6	44·8	—0·6	83·9	+3·0	56·5	+3·0	89·0	—3·0	61·2	—0·8	94·1	—3·9	66·4	+1·8
16. Sind . . .	75·3	+0·1	50·9	0	72·5	—6·4	52·7	—1·9	87·6	—0·6	63·1	—0·6	98·8	+3·8	74·4	+2·5	102·3	—0·4	79·2	+0·7	102·9	—0·1	82·9	—0·1
17. Rajputana, West	77·4	+2·9	50·4	+1·1	72·8	—5·7	50·2	—2·5	89·9	+0·1	62·0	—0·9	102·8	+2·7	76·0	+2·7	106·0	—0·7	81·6	+0·5	106·2	+0·7	85·3	+1·6
18. Rajputana, East	78·5	+3·5	50·2	+1·5	74·3	—4·8	51·8	—0·5	90·0	0	59·7	—2·5	102·9	+3·1	74·9	+2·0	106·2	+0·3	81·6	+0·5	106·8	+3·7	84·6	+1·7
19. Gujarat . .	84·3	+1·5	56·0	+0·2	83·2	—1·9	58·4	+0·2	92·2	—0·1	64·8	—0·9	100·3	+2·6	74·1	+1·4	99·9	+0·2	79·0	+1·0	99·7	+3·6	82·3	+2·0
20. Central India, West.	81·6	+3·1	51·2	+1·7	79·2	—2·7	52·9	+0·9	90·0	1·5	59·6	—1·2	101·6	+1·9	72·1	+1·7	103·6	+0·3	78·6	+1·9	101·7	+4·8	80·2	+3·6
21. Central India, East.	81·2	+6·7	50·1	+2·5	77·8	—1·5	53·4	+1·8	92·4	+1·5	58·5	—2·4	105·6	+4·5	72·0	+0·7	109·3	+3·2	80·3	+0·6	107·8	+6·8	82·7	+0·4
22. Berar . .	87·8	+2·5	58·7	+2·3	91·8	+1·8	64·0	+4·3	97·8	—0·4	69·4	+1·9	107·0	+1·9	79·6	+4·1	108·8	+1·1	83·4	+2·7	103·4	+5·1	81·5	+3·3
23. Central Provinces, West.	84·2	+4·0	54·2	+2·1	85·2	+0·7	58·8	+3·2	93·3	—0·8	63·9	0	105·0	+2·7	75·0	+2·0	107·8	+1·8	81·5	+2·1	103·0	+5·1	80·4	+2·2
24. Central Provinces, East.	82·5	+1·5	53·8	+0·3	87·0	+1·5	60·9	+2·9	93·5	—0·5	66·3	+0·7	103·4	+2·3	76·6	+2·7	106·7	+2·6	81·3	+2·3	101·0	+6·0	79·9	+2·8
25. Konkan . .	88·7	+3·4	70·2	+2·6	84·9	0	70·1	+1·7	86·1	—0·7	72·5	—0·5	90·3	+1·1	80·1	+2·5	91·0	+0·6	81·4	+1·1	87·3	+0·7	78·0	+0·3
26. Bombay, Deccan	87·0	+1·5	57·1	+1·0	92·5	+2·3	61·1	+2·4	96·2	—0·4	65·9	+0·7	102·3	+1·4	73·5	+2·4	102·6	+1·9	73·6	+0·6	94·5	+3·6	73·8	+1·6
27. Hyderabad, North.	87·0	+1·7	57·8	+1·5	92·3	+2·5	64·0	+4·7	97·6	+0·5	70·1	+3·0	104·9	+2·2	75·9	+4·2	107·0	+2·1	80·7	+2·6	99·1	+3·5	77·6	+2·7
28. Hyderabad, South.	86·2	+0·4	61·7	0	93·4	+2·3	69·3	+3·5	98·5	+0·6	74·6	+3·0	104·0	+1·7	80·0	+2·8	107·2	+3·3	80·8	+0·9	97·7	+2·0	77·0	+0·8
29. Mysore . .	84·0	+0·9	61·0	+1·1	91·4	+3·3	63·8	+0·6	95·7	+2·6	69·6	+2·1	97·4	+2·3	72·7	+2·0	96·3	+3·7	71·4	+1·3	87·5	+2·2	69·7	+1·4
30. Malabar . .	88·5	+1·0	73·6	+2·5	88·6	+0·5	74·4	+1·2	89·7	+0·1	77·5	+1·3	90·4	—0·1	79·4	+1·1	89·8	+0·4	80·0	+1·9	85·2	+0·7	76·0	+1·0
31. Madras, South-east.	84·4	—0·8	69·6	+1·6	88·3	—0·8	70·4	+1·1	92·5	—0·9	74·0	+1·3	95·1	—1·3	79·0	+1·8	99·1	+0·9	80·6	+1·9	96·8	+0·8	79·8	+1·8
32. Madras, Deccan.	86·6	—1·7	63·2	+0·7	93·5	—0·7	67·9	+1·0	98·8	—1·0	74·6	+2·0	103·5	—0·8	81·3	+2·4	104·4	+0·1	81·4	+0·9	96·6	—0·7	78·5	+0·6
33. Madras Coast, North	82·7	+0·5	64·6	—1·3	84·6	—1·5	68·6	—0·4	89·5	—0·9	73·7	+0·5	92·9	—0·6	78·7	+0·9	95·9	—0·8	81·3	+0·9	90·7	+1·9	82·4	+1·7

with their departures from normal in the 33 sub-divisions of India in 1931.

JULY.				AUGUST.				SEPTEMBER.				OCTOBER.				NOVEMBER.				DECEMBER.				Year.			
Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.	
Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.
85·2	—0·2	77·9	+0·4	84·9	—0·3	77·7	+0·5	85·2	+0·3	77·2	+0·6	85·2	—1·2	76·6	—0·3	86·0	—0·6	77·9	+0·8	83·9	—1·7	76·9	+0·4	86·6	—0·5	77·4	+0·4
84·6	0	75·3	+0·1	84·0	—0·4	75·7	+0·5	86·2	+0·8	76·3	+1·0	87·1	0	75·3	+0·2	87·3	+0·9	71·2	—0·9	86·8	+2·2	69·3	+2·2	88·2	+0·9	73·6	+0·9
89·5	—0·2	76·4	+0·6	90·9	+1·9	77·4	+1·9	88·9	—0·8	75·5	+0·8	88·5	+0·1	72·9	+1·1	82·2	—1·5	61·5	—2·6	79·7	+0·5	58·6	+3·0	89·2	+0·9	68·6	+0·8
87·8	—0·7	77·1	—0·2	90·8	+2·4	78·6	+1·2	86·9	—1·0	75·4	—0·8	88·0	+2·3	72·8	+1·6	81·0	+0·3	61·5	—0·1	76·2	+1·5	54·9	+2·1	88·8	+0·7	67·5	+0·9
87·5	—0·7	78·1	—0·3	89·1	+1·4	79·5	+1·3	88·7	+0·5	78·1	+0·4	87·8	+0·3	74·9	+1·1	82·5	—0·3	63·8	—0·6	79·2	+1·9	58·4	+2·8	87·0	+0·9	70·4	+0·9
88·2	—0·8	77·8	—0·3	85·1	—0·1	78·2	+0·3	89·4	+0·1	78·2	+0·6	86·7	—2·4	75·0	+1·8	84·1	—0·2	63·5	—0·2	80·2	0	56·1	+0·2	90·8	+0·8	71·7	+0·8
86·8	—0·7	74·7	—0·8	86·6	+0·5	75·9	+0·9	86·4	—0·3	74·2	+0·3	89·1	—3·1	69·8	+1·3	79·0	—1·5	58·1	—0·9	74·6	—0·9	51·1	+0·3	87·4	+0·5	67·6	+0·9
89·3	—0·9	78·2	—0·8	90·1	+1·0	79·9	+1·3	89·3	—0·1	77·9	+0·1	87·8	—0·4	72·8	+1·1	82·4	+0·2	59·4	—0·7	77·5	+2·1	52·5	+1·3	88·6	+1·2	68·6	+0·7
93·0	+0·6	76·5	0	91·4	+1·3	80·0	+1·5	90·4	—0·9	77·7	+0·9	88·6	—2·1	70·8	+2·7	83·6	+0·5	55·9	+0·4	77·0	+1·9	50·5	+2·8	90·5	+1·3	67·7	+1·4
94·9	+2·8	78·2	—0·5	90·9	+1·3	77·7	+0·4	88·8	—1·9	74·5	—0·1	87·2	—2·9	67·6	+2·6	81·5	—0·3	53·0	—1·0	75·3	+1·7	47·0	+0·1	88·9	+1·1	65·1	+0·1
96·7	—1·1	78·1	—1·9	94·8	—0·1	79·0	+0·4	94·1	—0·9	74·0	—0·1	90·3	—2·0	65·9	+3·6	82·6	+1·1	49·9	—0·2	74·4	+2·3	42·7	—0·1	88·4	+0·3	62·7	—0·2
100·7	—2·6	80·6	—2·6	101·4	+1·3	83·6	+2·3	98·4	—0·7	77·0	+1·0	92·6	—2·1	67·4	+4·0	83·8	+0·5	52·5	+1·6	74·5	+2·7	43·3	+1·1	90·1	—0·2	64·5	+0·6
75·0	—7·3	54·9	—2·9	82·1	+0·4	59·4	+1·7	74·1	—0·6	51·1	+1·7	67·3	+1·8	43·0	+4·4	52·7	—0·5	30·1	+2·8	42·5	+2·8	20·7	+1·8	60·3	—0·2	38·8	+1·7
103·0	—0·5	79·4	—1·7	103·9	+3·8	82·8	+3·1	98·1	+1·1	74·3	+1·3	91·0	0	62·4	+2·7	81·0	+1·5	48·0	+0·9	72·6	+3·5	40·3	+0·5	88·5	+0·9	61·3	+0·3
97·0	—1·9	69·9	—1·5	99·0	+2·9	71·9	+3·6	89·5	—1·6	59·6	0	82·2	—0·5	50·0	+0·7	73·9	+1·7	41·3	+0·6	63·4	+1·3	34·0	—0·8	81·4	+0·8	52·3	+0·1
100·0	+1·2	83·8	+1·5	98·8	+3·5	83·0	+3·2	96·4	+0·9	77·0	+0·6	94·1	—0·7	70·6	+1·5	88·2	+1·2	61·2	+2·0	79·8	+2·1	54·1	+2·3	91·4	+0·3	69·4	+1·0
99·5	0	82·0	+0·4	95·5	0	80·1	+0·9	95·5	—1·0	76·6	—0·5	93·0	—3·3	70·4	+0·9	87·2	+0·1	59·0	+0·5	79·9	+2·5	51·2	+0·3	92·2	—0·1	68·7	+0·4
94·8	+1·1	79·2	+0·1	88·1	—1·8	77·3	+0·3	91·8	—0·5	74·5	—0·5	89·4	—4·3	67·6	+0·7	86·2	+0·6	54·6	—1·4	78·7	+1·4	51·2	+1·9	90·7	+0·2	67·2	+0·3
92·7	+2·7	80·1	+1·6	88·8	—0·1	78·3	+1·6	90·0	—0·1	76·2	+0·9	91·7	—2·3	71·7	+0·6	90·8	+0·3	65·3	+1·6	85·9	+1·3	58·9	+1·8	91·6	+0·6	70·4	+1·0
88·8	+2·1	74·2	+0·5	82·5	—1·3	73·2	+1·1	85·5	—1·2	71·2	+0·7	85·2	—4·7	65·1	+1·0	82·7	—1·6	54·4	—0·5	77·9	—1·3	51·6	+2·1	88·3	—0·2	65·3	+1·1
94·7	+5·1	78·9	+0·8	88·6	+1·7	77·8	+1·2	90·0	+1·1	75·4	+0·6	88·0	—1·1	66·7	+1·1	82·1	+0·4	50·8	—2·9	77·0	+1·9	46·1	—0·7	91·2	+2·5	66·0	+0·3
89·0	+0·3	74·4	+0·1	85·2	—1·5	74·2	+1·1	87·4	—1·5	73·4	+0·9	86·4	—5·3	69·9	+2·3	84·6	—2·9	61·8	+1·6	81·8	—1·9	56·2	+1·3	92·6	—0·1	70·5	+2·2
89·0	+2·1	74·7	+0·1	84·3	—0·4	74·4	+0·9	86·7	—0·6	73·1	+0·7	85·0	—4·2	68·1	+2·1	82·8	—1·1	57·6	+0·9	79·0	—0·4	53·0	+1·9	90·4	+0·7	67·9	+1·5
86·9	+0·8	74·2	+0·3	84·0	—0·7	74·5	+1·0	86·9	+0·2	74·1	+1·1	84·2	—3·0	69·9	+2·4	80·9	—1·7	59·3	+0·3	78·0	—1·1	51·3	—0·6	89·6	+0·7	68·5	+1·3
83·3	—0·6	75·4	—0·9	83·2	—0·3	76·3	+0·5	83·8	0	75·6	+0·4	85·6	—1·1	74·6	—0·5	89·3	+1·4	74·1	+2·2	87·1	+0·5	70·3	+1·7	86·7	+0·4	74·9	+0·9
84·8	0	71·0	+0·2	84·0	—0·2	71·3	+1·7	85·4	—0·3	69·5	+0·7	85·0	—3·8	67·2	+0·4	84·3	—1·8	61·8	+1·5	81·3	—2·8	58·4	+0·9	90·0	+0·1	66·9	+1·2
86·4	—1·3	72·1	—0·2	84·4	—1·3	72·2	+1·1	85·4	—1·7	72·5	+0·7	85·8	—4·1	68·4	+0·9	84·0	—2·3	61·2	+1·0	81·3	—2·4	55·2	+0·5	91·2	—0·1	69·2	+1·9
88·9	—0·3	73·7	+0·1	88·8	+0·9	74·1	+1·2	87·4	—0·7	73·4	—0·6	87·2	—2·7	71·4	+0·8	84·4	—1·9	65·6	+1·7	83·2	—0·9	60·9	+0·6	92·3	+0·4	71·9	+1·3
83·4	+1·1	68·2	+1·0	82·6	+0·1	68·4	+1·5	83·6	+0·1	67·1	+0·5	85·9	+2·1	67·1	+0·5	82·4	+0·7	65·3	+1·6	79·8	—1·1	62·6	+2·6	87·5	+1·5	67·2	+1·3
83·6	+0·5	74·5	+0·2	81·8	—1·3	74·2	—0·2	83·8	—0·3	74·6	+0·1	85·8	+0·5	75·0	+0·3	87·4	+1·3	74·3	+0·4	86·8	—0·1	73·9	+2·1	86·8	+0·3	75·6	+1·0
96·1	—0·9	77·4	+0·6	93·2	+0·1	77·8	+1·8	91·8	—0·4	76·4	+1·0	91·4	+2·1	76·0	+1·8	85·3	—0·5	72·7	+0·8	81·8	—2·1	71·2	+2·1	91·1	—0·3	75·4	+1·5
91·5	—1·5	76·3	+0·3	92·0	0	77·1	+2·1	89·3	—2·1	74·7	+0·4	89·6	—1·6	73·3	+1·0	85·5	—2·5	69·0	—1·9	83·9	—2·5	66·2	+2·9	93·0	—1·3	73·5	+1·3
90·4	—0·8	78·5	—0·4	91·2	+0·7	79·4	+0·9	89·5	—0·9	78·5	+0·4	87·4	—1·4	76·5	+0·7	83·0	—1·3	70·6	—0·1	81·2	—0·3	66·5	+1·2	88·7	—0·5	74·9	+0·4

TABLE A-4.—*Departure of the mean monthly and annual aqueous vapour pressure from the normal in the 15 chief political divisions of India in 1931.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	+·009	+·019	—·030	+·018	—·007	+·014	—·011	+·014	+·015	—·023	—·057	+·013	—·002
Assam	+·043	+·027	—·012	+·033	—·024	—·002	+·001	+·036	—·005	+·037	+·006	+·036	+·015
Bengal	+·040	+·020	—·031	+·055	—·019	+·041	—·002	+·026	+·014	+·029	—·005	+·046	+·018
Bihar and Orissa	+·030	+·067	+·003	—·010	—·015	—·043	+·003	+·031	+·017	+·033	+·014	+·030	+·013
United Provinces	+·001	+·032	—·054	—·078	—·047	—·185	—·004	+·057	+·040	+·092	+·006	+·011	—·011
Punjab	—·002	—·017	—·022	—·009	—·009	—·151	—·025	+·078	+·049	+·119	—·001	—·002	+·001
N.-W. F. Province	+·015	—·023	—·045	—·039	—·103	—·181	—·133	+·034	—·020	+·065	—·019	—·025	—·039
Sind	—·035	—·060	+·002	—·001	—·007	—·027	+·007	+·064	—·025	0	+·024	+·017	—·003
Rajputana	—·012	—·013	—·069	—·088	—·070	—·178	—·026	+·100	+·009	+·090	+·008	+·035	—·018
Bombay	—·034	—·036	—·076	—·015	—·028	—·004	+·025	+·044	+·009	+·009	+·021	+·017	—·006
Central India	+·022	+·025	—·062	—·059	+·013	—·091	+·023	+·059	+·033	+·103	+·027	+·031	+·010
Central Provinces	0	+·048	—·032	—·050	—·066	—·080	+·021	+·043	+·041	+·101	+·049	+·027	+·009
Hyderabad	—·011	+·079	+·026	+·022	—·020	+·047	+·030	+·033	+·045	+·041	+·064	—·002	+·029
Mysore	+·019	+·028	—·068	+·060	—·001	+·028	+·023	+·032	—·001	—·006	+·043	+·056	+·028
Madras	—·023	+·001	—·016	+·018	+·005	+·008	—·003	—·003	—·016	—·011	+·011	+·026	0
Mean of India	+·001	+·014	—·032	—·013	—·025	—·053	—·002	+·042	+·017	+·043	+·006	+·020	+·001

TABLE A-5.—*Departure of the mean monthly and annual relative humidity from the normal in the 15 chief political divisions of India in 1931.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	—2	—4	—4	—2	—4	—1	—1	—1	0	—3	—5	—3	—3
Assam	+1	—2	—7	—1	+1	—1	+1	—2	0	—3	0	—1	—1
Bengal	0	—2	—4	+1	—1	—2	+1	—1	0	+1	0	—2	—1
Bihar and Orissa	+2	+3	—2	—6	—3	—15	+2	0	0	+2	0	0	—1
United Provinces	—3	+7	—7	—11	—6	—21	—1	—1	+4	+9	+1	+1	—2
Punjab	—4	+2	—5	—8	—2	—16	—1	+2	+3	+8	—4	—5	—3
N.-W. F. Province	+1	+3	—18	—11	—5	—7	—3	—2	+1	+9	—3	—9	—3
Sind	—8	—6	0	—6	—3	—4	—3	—4	—2	—5	+1	+1	—3
Rajputana	—8	0	—10	—11	—7	—13	—3	+7	0	+10	—2	0	—3
Bombay	—9	—7	—8	—6	—5	—4	+1	+2	0	+3	+2	+3	—2
Central India	—1	+6	—9	—9	—2	—17	—1	+4	+2	+13	+4	+2	—1
Central Provinces	—4	+4	—5	—7	—3	—16	+2	+4	+3	+13	+8	+3	0
Hyderabad	0	+7	+1	—2	—5	+1	+5	+2	+6	+9	+13	+4	+3
Mysore	+4	+4	—3	+4	—2	+2	+3	+2	0	—3	+5	+3	+2
Madras	—3	—1	—4	0	—1	—2	0	—2	—2	—3	+1	+2	—1
Mean of India	—3	0	—5	—5	—4	—9	0	+1	+1	+4	+1	0	—2

TABLE A-6.—*Departure of the mean monthly and annual cloud amount from the normal in the 15 chief political divisions of India in 1931.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma . . .	—0·1	0	—0·6	+0·4	—0·2	+0·1	+0·7	+0·8	+1·1	+0·8	—1·1	+0·9	+0·2
Assam . .	+0·6	+0·7	—0·7	+0·8	+1·6	+1·0	+1·1	0	+1·5	0	—0·4	+0·3	+0·5
Bengal . . .	0	+0·8	—0·4	+0·4	+0·8	—0·6	+0·7	0	+0·8	+1·8	+0·4	+0·5	+0·4
Bihar and Orissa . .	+0·5	+1·6	+1·0	+0·2	+0·7	—1·4	+1·5	+0·8	+1·5	+2·5	+0·5	+0·6	+0·8
United Provinces . .	—0·1	+2·9	+0·2	—0·2	—0·4	—1·4	+1·3	+0·6	+2·6	+1·8	—0·1	+0·1	+0·6
Punjab . .	+0·4	+1·8	—0·7	+0·1	+0·5	—0·3	0	+1·1	+0·4	+0·8	+0·3	—0·9	+0·3
North-West Frontier Province.	+1·3	+1·2	—0·8	+0·6	+1·5	+0·5	+0·5	—0·6	+0·5	+0·7	+1·1	—0·5	+0·5
Sind . . .	—0·4	+2·6	—1·0	—0·3	0	—1·2	—0·5	+0·3	0	+0·3	+0·6	—0·9	0
Rajputana	—0·5	+2·5	—0·6	—0·5	—0·2	—1·2	+0·1	+1·5	+0·5	+1·3	+0·2	+0·1	+0·3
Bombay	+0·6	+0·6	+1·1	+0·1	—0·3	—1·0	+0·4	+0·8	+0·9	+1·3	+0·4	+1·2	+0·5
Central India . . .	+0·5	+2·8	+0·4	—0·5	—1·3	—2·1	—0·8	+0·6	+1·2	+2·2	—0·1	+0·7	+0·3
Central Provinces . .	+0·3	+0·3	+0·6	—0·2	—0·3	—0·6	+0·4	+0·9	+1·0	+2·2	+0·3	+0·2	+0·4
Hyderabad . . .	0	—0·3	+0·9	+0·4	—0·7	—0·4	0	+0·1	+0·6	+1·4	+0·9	+1·4	+0·4
Mysore	+0·8	—0·5	—0·3	+0·6	0	—0·5	—0·2	+0·4	0	+0·3	+1·1	+3·2	+0·4
Madras	+0·9	+0·5	+0·5	+0·9	+0·6	+0·1	+0·7	+0·9	+0·5	+1·0	+1·2	+2·4	+0·9
Mean of India . . .	+0·3	+1·1	0	+0·1	+0·1	—0·6	+0·5	+0·7	+0·9	+1·3	+0·2	+0·6	+0·4

TABLE A-7.—*Average over the 15 chief political divisions of the*

DIVISION.	JANUARY.			FEBRUARY.			MARCH.			APRIL.			MAY.			JUNE.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	0·04	—0·07	—64	0·11	(—0·11	—50	0·12	—0·35	—74	0·62	—0·70	—53	6·22	—2·49	—29	13·04	—2·76	—17
Assam	0·35	—0·32	—48	0·94	—0·59	—39	1·95	—2·06	—51	10·81	+1·77	+20	15·35	+3·34	+28	20·24	+2·08	+11
Bengal	0·05	—0·29	—85	1·59	+0·64	+67	1·31	—0·35	—21	2·15	—1·13	—34	9·60	+1·98	+26	10·03	—4·55	—31
Bihar and Orissa	0·13	—0·39	—75	2·23	+1·33	+148	0·68	—0·04	—6	0·23	—0·58	—72	1·36	—1·12	—45	3·51	—4·96	—59
United Provinces	0·03	—0·76	—96	1·20	+0·49	+67	0·22	—0·24	—52	0·01	—0·24	—96	0·38	—0·30	—44	1·01	—3·38	—77
Punjab	0·46	—0·57	—55	0·80	—0·09	—10	0·85	+0·02	+2	0·13	—0·41	—76	0·87	+0·31	+55	0·46	—1·27	—73
North-West Frontier Province.	1·73	+0·45	+35	0·75	—0·44	—37	0·82	—1·07	—57	0·55	—0·99	—64	1·73	+0·96	+125	0·38	—0·53	—62
Sind	0·04	—0·19	—83	0·31	+0·02	+7	0·06	—0·17	—74	0	—0·11	—100	0·43	+0·28	+187	1·01	—0·46	—98
Rajputana	0·01	—0·80	—97	0·07	—0·20	—74	0·08	—0·13	—62	0	—0·16	—100	0·41	—0·09	—18	0·39	—1·87	—83
Bombay	0	—0·12	—100	0	—0·08	—100	0·04	—0·07	—64	0·46	+0·07	+18	0·38	—0·68	—64	4·77	—4·01	—46
Central India	0·10	—0·36	—78	0·23	—0·16	—41	0·01	—0·21	—95	0	—0·17	—100	0·10	—0·87	—79	1·42	—3·45	—71
Central Provinces	0·35	—0·16	—31	0·80	0	0	0·43	—0·10	—19	0·20	—0·27	—57	0·18	—0·49	—73	3·87	—4·04	—51
Hyderabad	0	—0·17	—100	0·09	—0·16	—64	0·27	—0·12	—31	0·25	—0·40	—62	0·93	+0·06	+7	5·77	+0·62	+17
Mysore	0	—0·12	—100	0	—0·13	—100	0·14	—0·17	—55	1·77	+0·31	+21	3·15	—0·43	—12	4·25	—0·55	—11
Madras	0·55	—0·19	—26	0·02	—0·42	—95	0·28	—0·43	—61	2·33	+0·57	+32	2·52	—1·00	—28	6·62	—1·32	—17
Mean of India	0·20	—0·26	—57	0·57	+0·03	+6	0·41	—0·29	—41	1·00	—0·21	—17	2·73	—0·41	—13	5·51	—2·43	—31

monthly and annual rainfall, with its departure from normal in 1931.

JULY			AUGUST.			SEPTEMBER.			OCTOBER.			NOVEMBER.			DECEMBER			YEAR.		
Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
18·31	—1·09	—6	19·63	+2·74	+16	11·71	—0·49	—4	6·62	+0·13	+2	1·44	- 0·76	—35	0·53	+0·04	+8	76·39	—5·91	—7
22·14	+3·46	+19	12·48	—4·32	—26	12·19	—0·34	—3	5·32	—0·34	—6	1·22	+0·29	+31	0·62	+0·27	+77	103·61	+3·24	+3
13·41	+3·40	+23	11 48	—2·60	—18	11·79	+0·85	+8	6·30	+1·28	+25	1·98	+1 18	+147	0·08	—0·08	—50	74·77	+0·33	0
14·22	+1·65	+13	12·94	+0·03	0	8·90	+0·30	+3	4·70	+1·64	+54	1·19	+1 60	+102	0·03	—0·11	—79	50·12	—1·66	—3
10·08	—1·42	—12	9·60	—1·60	—14	13·80	+7·11	+111	3·26	+1·92	+143	0·01	(16	—94	0·01	+0·28	—97	39·31	+1·13	+3
6·59	+1·27	+24	6·13	+0·70	+13	2·86	+0·05	+2	0·90	+0·59	+190	0	0 12	—100	0·01	—0·37	—97	20·03	+0·11	+1
2·24	—0·34	—13	1·51	—1·65	—52	1·04	—0·14	—12	0·80	+0·47	+142	0·05	23	—82	0·12	—0·42	—78	11·67	—3·93	—25
0·54	—1·95	—78	1·22	—0 69	—36	0·14	—0·48	—77	0·27	+0·22	+440	0	0·06	+100	0	—0·09	—100	3·02	—3·68	—55
7·05	+0·28	+4	12·85	+6·02	+88	2·14	—1·17	—35	1·74	+1·29	+287	0·01	—0·12	—92	0·03	—0·14	—82	24·78	+3·41	+16
21·02	+6·05	+40	15·87	+6·24	+65	6·42	—0·12	—2	7·29	+4·72	+184	1·98	+1·23	+164	0·70	+0·52	+2,9	58·93	+13·75	+30
9·84	—1·34	—12	16·05	+4·37	+37	9·48	+3·88	+69	4·07	+3·11	+324	0·30	—0·12	—29	0·10	—0·09	—[illegible]	41·70	+5·09	+14
13·40	+0·19	+1	17·64	+5·27	+43	9·29	+2·09	+29	7·89	+5·94	+305	1·58	+1·09	+222	0·03	—0·24	—[illegible]	55·70	+9·28	+20
10·17	+3·09	+42	4·20	—2·59	—38	10·34	+2·85	+38	4·17	+1·58	+58	2·33	+1·42	+156	0·24	—0·05	—17	38·76	+6·19	+19
6·59	—0 56	—8	8·10	+2·87	+55	5·65	+0·47	+9	1·39	—3·91	—74	4·67	+2 25	+93	1 00	+0·55	+122	36·71	+0·58	+2
8·39	+0·05	+1	11·91	+5·24	+79	5·48	—0·55	—9	6·72	—1·02	—13	6·54	+0·56	+9	7·01	+4·92	+235	58·37	+6·41	+12
12·20	+0·88	+8	12·51	+2·13	+21	7·89	+0·84	+12	4·75	+1·48	+45	1·62	+0·83	+26	0·90	+0·43	+91	50·29	+2·52	+5

TABLE A-8.—*Average over the 33 sub-divisions of the monthly and annual*

SUB-DIVISION.	JANUARY.					FEBRUARY.					MARCH.				
	RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1. Bay Islands	1·5	+0·2	0·52	—0·39	—43	0·5	—0·6	0·21	—0·56	—73	1·0	—0·1	0·47	—0·28	—37
2. Lower Burma	0·1	—0·2	0·08	—0·03	—27	0·1	—0·2	0·07	—0·15	—68	0·2	—0·5	0·08	—0·45	—85
3. Upper Burma	0	—0·3	0·01	—0·10	—91	0·3	—0·2	0·14	—0·08	—33	0·5	—0·5	0·15	—0·27	—64
4. Assam	0·9	—0·7	0·35	—0·32	—48	2·5	—0·9	0·04	—0·59	—39	3·5	—2·8	1·95	—2·06	—51
5. Bengal	0·2	—0·6	0·05	—0·29	—85	3·6	+2·0	1·59	+0·64	+67	1·9	—0·6	1·31	—0·35	—21
6. Orissa	0·5	—0·3	0·22	—0·22	—50	2·5	+0·7	1·97	+0·81	+70	1·9	0	0·97	—0·09	—8
7. Chota Nagpur	0·4	—1·1	0·22	—0·53	—71	9·7	+7·6	4·77	+3·65	+326	1·7	—0·1	0·60	—0·32	—35
8. Bihar	0·1	—0·8	0·05	—0·38	—88	3·2	+1·7	1·30	+0·61	+88	1·1	+0·1	0·58	+0·11	+23
9. United Provinces, East	0·1	—1·3	0·03	—0·60	—95	2·9	+1·6	0·95	+0·40	+73	0·2	—0·6	0·05	—0·27	—84
10. Do. do., West	0·1	—1·8	0·03	—0·90	—97	3·4	+1·8	1·41	+0·55	+64	0·8	—0·5	0·37	—0·22	—37
11. Punjab, East and North	1·4	—0·8	0·54	—0·66	—55	2·6	+0·6	1·00	—0·01	—1	1·9	0	0·86	—0·04	—4
12. Do., Southwest	0·7	—0·5	0·23	—0·27	—54	0·9	—0·4	0·22	—0·31	—58	2·0	+0·4	0·80	+0·16	+25
13. Kashmir	5·5	+0·4	3·89	+0·24	+7	8·3	+3·3	4·70	+1·79	+34	3·1	—3·3	1·66	—2·92	—64
14. North-West Frontier Province	3·1	+0·7	1·73	+0·45	+35	2·6	0	0·75	—0·44	—37	2·1	—1·6	0·82	—1·07	—57
15. Baluchistan	3·3	+0·7	1·23	+0·03	+3	5·8	+3·3	3·05	+1·85	+154	1·9	—1·0	0·78	—0·47	—38
16. Sind	0·2	—0·4	0·04	—0·19	—83	1·2	+0·5	0·31	+0·02	+7	0·2	—0·3	0·06	—0·17	—74
17. Rajputana, West	0	—0·5	0·01	—0·18	—95	0·2	—0·3	0·05	—0·18	—78	0·3	—0·2	0·07	—0·11	—61
18. Do., East	0	—0·9	0·01	—0·36	—97	0·3	—0·4	0·08	—0·22	—73	0·3	—0·3	0·09	—0·14	—61
19. Gujarat	0	—0·2	0	—0·09	—100	0	—0·2	0	—0·10	—100	0	—0·2	0	—0·07	—100
20. Central India, West	0·2	—0·6	0·07	—0·32	—82	0·3	—0·4	0·07	—0·23	—77	0	—0·4	0	—0·17	—100
21. Do. do., East	0·6	—0·8	0·23	—0·45	—66	2·2	+0·7	0·74	+0·04	+6	0·1	—0·9	0·04	—0·36	—90
22. Berar	0·5	—0·2	0·10	—0·20	—74	0	—0·7	0·02	—0·34	—94	0·5	—0·2	0·16	—0·17	—52
23. Central Provinces, West	1·3	+0·2	0·55	—0·10	—15	1·8	+0·5	0·71	+0·02	+3	1·1	—0·1	0·45	—0·11	—20
24. Do. do., East	1·0	+0·1	0·33	—0·13	—28	2·6	+0·8	1·28	+0·17	+15	1·6	+0·3	0·56	—0·04	—7
25. Konkan	0	—0·2	0	—0·10	—100	0	—0·1	0	—0·05	—100	0·1	0	0·04	—0·02	—33
26. Bombay Deccan	0	—0·3	0	—0·15	—100	0	—0·2	0	—0·09	—100	0·2	+0·1	0·06	—0·09	—60
27. Hyderabad, North	0	—0·3	0	—0·16	—100	0·5	0	0·15	—0·10	—40	0·8	—0·1	0·33	—0·04	—11
28. Do., South	0	—0·3	0	—0·18	—100	0	—0·5	0·01	—0·23	—96	0·7	0	0·19	—0·23	—55
29. Mysore	0	—0·2	0	—0·12	—100	0	—0·2	0	—0·13	—100	0·4	—0·2	0·14	—0·17	—55
30. Malabar	0·6	—0·6	0·18	—0·70	—80	0	—0·9	0·02	—0·53	—96	1·1	—1·3	0·73	—0·71	—49
31. Madras, Southeast	2·1	+0·3	1·16	+0·17	+17	0	—0·7	0	—0·47	—100	0·2	—0·6	0·10	—0·41	—80
32. Do., Deccan	0	—0·3	0·02	—0·13	—90	0	—0·2	0	—0·14	—100	0·2	—0·1	0·10	—0·11	—52
33. Do., Coast, North	0·2	—0·3	0·06	—0·32	—84	0·1	—0·5	0·06	—0·33	—85	0·4	—0·4	0·21	—0·29	—58

rainfall and number of rainy days with their departures from normal in 1931.

APRIL.					MAY.					JUNE.					JULY.				
RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
0·3	—1·8	0·13	—1·17	—90	9·7	—0·5	4·35	—4·59	—51	13·7	—2·2	9·96	—4·16	—29	16·7	+0·9	13·15	+0·97	+8
0·7	—1·2	0·32	—1·06	—77	10·0	—2·5	8·78	—3·26	—27	20·3	—1·9	20·11	—5·23	—21	25·5	+1·4	29·06	—0·27	—1
1·7	—0·8	0·87	—0·40	—31	7·5	—0·5	4·11	—1·82	—31	9·0	—1·9	7·17	+0·71	—9	9·0	—1·4	5·38	—1·30	—25
13·8	+1·8	10·81	+1·77	+20	17·3	+3·3	15·35	+3·34	+28	17·4	—0·3	20·24	+2·03	+11	21·7	+2·7	22·14	+3·46	+19
3·0	—1·5	2·15	—1·13	—34	9·9	+1·2	9·60	+1·98	—26	10·6	—3·8	10·03	—4·55	—31	19·2	+2·6	18·41	+3·40	+23
1·5	—1·0	0·77	—0·62	—45	3·3	—1·6	2·07	—1·23	—37	6·4	—5·1	4·36	—5·43	—55	14·2	—1·1	9·61	—3·37	—26
0·2	—1·3	0·06	—0·62	—91	2·6	—1·2	1·26	—0·85	—40	5·3	—5·3	3·55	—5·25	—60	17·2	+2·0	13·80	+0·48	+4
0·9	—1·1	0·05	—0·55	—92	2·0	—1·2	1·06	—1·20	—53	4·0	—4·6	3·09	—4·06	—60	17·8	+4·4	16·84	+4·50	+37
0	—0·5	0	—0·19	—100	0·5	—0·3	0·26	—0·42	—62	1·9	—3·6	1·29	—3·51	—73	13·4	+0·8	10·71	—0·87	—8
0·1	—0·7	0·02	—0·28	—93	1·0	—0·5	0·49	—0·18	—27	1·4	—3·4	0·77	—3·27	—81	11·1	—0·3	9·53	—1·90	—17
0·3	—0·9	0·11	—0·44	—80	1·9	+0·5	0·82	+0·22	+37	1·0	—1·9	0·37	—1·66	—82	8·4	+1·7	7·52	+1·26	+20
0·6	—0·7	0·19	—0·33	—63	2·1	+1·1	1·03	+0·61	+145	1·6	+0·2	0·75	—0·06	—7	4·5	+1·4	3·81	+1·32	+53
2·7	—3·0	1·37	—2·14	—61	6·6	+2·8	3·46	+1·49	+76	1·3	—3·0	0·44	—2·06	—82	8·2	+0·5	7·63	+0·53	+7
1·7	—1·5	0·55	—0·99	—64	3·3	+1·6	1·73	+0·96	+125	0·7	—0·9	0·33	—0·83	—62	3·0	—0·6	2·24	—0·34	—13
1·2	—0·5	0·36	—0·34	—49	0·8	+0·2	0·33	+0·05	+ 18	0·4	—0·2	0·14	—0·16	—53	1·2	—0·4	0·54	—0·41	—43
0	—0·3	0	—0·11	—100	0·6	+0·3	0·43	+0·28	+187	0	—0·7	0·01	—0·46	—98	1·1	—1·4	0·54	+1·95	—78
0	—0·4	0	—0·16	—100	1·4	+0·5	0·55	+0·12	+28	1·1	—0·9	0·43	—0·67	—67	4·1	—0·4	3·39	—0·04	—1
0	—0·4	0	—0·16	—100	0·9	—0·4	0·33	—0·21	—39	1·1	—2·9	0·37	—2·41	—87	9·5	—0·4	9·03	+0·44	+5
0	—0·1	0	—0·03	—100	0·3	—0·3	0·11	—0·22	—67	1·2	—4·3	0·72	—4·43	—86	11·5	—1·0	12·70	+0·06	0
0	—0·3	0	—0·15	—100	0·3	—0·8	0·10	—0·88	—79	2·7	—3·2	1·45	—3·39	—70	11·5	—0·3	10·10	—0·53	—5
0	—0·5	0	—0·24	—100	0·3	—0·8	0·10	—0·36	—78	2·7	—3·0	1·32	—3·65	—73	10·5	—3·4	8·97	—4·01	—31
0·4	—0·3	0·10	—0·14	—58	0·4	—0·7	0·18	—0·41	—76	6·2	—1·8	3·97	—2·09	—34	17·6	+5·4	12·84	+3·67	+40
0·5	—0·2	0·18	—0·12	—40	0·5	—0·9	0·14	—0·44	—76	6·2	—2·4	3·48	—3·37	—53	15·1	+0·3	12·82	—0·52	—4
0·8	—0·8	0·27	—0·46	—63	0·7	—1·0	0·24	—0·55	—70	6·2	—3·7	4·10	—5·22	—56	16·2	+0·1	14·13	—1·14	—7
0·6	0	0·30	—0·07	—19	0·8	—1·1	0·44	—1·13	—72	13·5	—4·8	13·13	—12·17	—48	29·4	+3·4	66·13	+27·05	+69
1·7	+0·4	0·82	+0·20	+32	1·0	—1·4	0·54	—0·80	—60	6·7	—1·2	4·41	—0·84	—16	14·0	+2·7	10·34	+2·43	+31
1·3	+0·1	0·37	—0·14	—27	0·5	—1·1	0·27	—0·46	—63	8·4	+0·5	5·99	+0·48	+9	15·4	+3·6	12·44	+4·44	+55
0·4	—1·3	0·12	—0·69	—85	3·4	+1·2	1·68	+0·66	+65	7·8	+0·9	5·52	+1·19	+27	11·2	+0·5	7·64	+1·40	+22
3·4	+0·7	1·77	+0·31	+21	5·5	—0·1	3·15	—0·43	—12	6·8	—0·4	4·25	—0·55	—11	9·7	0	6·59	—0·56	—8
8·0	+2·4	5·08	+1·31	+35	7·0	—1·9	4·59	—2·67	—37	21·4	+1·1	18·84	—4·86	—21	21·7	+1·8	21·58	—0·61	—3
2·4	+0·4	2·26	+0·97	+75	2·9	—0·9	2·01	—0·53	—21	2·3	—0·6	1·37	—0·19	—12	4·3	+0·5	2·70	+0·51	+23
0·5	—0·7	0·25	—0·37	—60	3·3	+0·3	1·70	+0·05	+3	6·0	+1·6	3·83	+1·46	+62	4·7	—1·6	2·05	—1·16	—36
0·9	—0·7	0·43	—0·51	—54	2·7	—0·5	1·58	—0·53	—25	6·1	—0·7	4·19	—0·74	—15	10·1	+0·1	7·10	+0·47	+7

TABLE A-8.—*Average over the 33 sub-divisions of the monthly and annual*

SUB-DIVISION.	AUGUST.					SEPTEMBER.					OCTOBER.				
	RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1. Bay Islands	22·3	+6·8	19·44	+8·12	+72	13·0	—1·6	7·36	—4·05	—35	17·0	+6·8	16·01	+8·99	+128
2. Lower Burma	25·5	+1·7	34·03	+6·39	+25	18·7	+0·2	15·04	—2·30	—13	11·7	+1·4	8·54	+0·84	+11
3. Upper Burma	11·2	—0·5	7·54	—0·74	—9	12·4	+1·7	8·92	+1·04	+13	7·5	+0·1	5·02	—0·46	—8
4. Assam	15·0	—2·8	12·48	—4·32	—26	14·6	+0·8	12·19	—0·34	—3	7·0	+0·3	5·32	—0·34	—6
5. Bengal	15·6	—1·0	11·48	—2·60	—18	14·1	+1·9	11·79	+0·85	+8	7·8	+2·5	6·30	+1·28	+25
6. Orissa	13·3	+2·7	20·67	+7·65	+59	12·5	+0·6	8·12	—0·81	—9	12·6	+7·1	9·34	+4·58	+96
7. Chota Nagpur	17·2	+0·8	14·39	+0·63	+5	9·9	—0·3	7·44	—0·62	—8	6·7	+2·9	3·99	+1·07	+37
8. Bihar	11·9	—1·5	8·65	—3·83	—31	8·9	0	9·97	+1·27	+15	2·9	+0·2	2·28	+0·53	+23
9. United Provinces, East.	12·9	+0·1	9·63	—1·72	—15	10·1	+2·7	12·50	+5·61	+81	3·6	+1·9	3·73	+1·85	+98
10. Do. do., West	12·3	+0·9	9·58	—1·49	—13	11·8	+5·8	14·38	+8·43	+142	2·8	+1·9	2·86	+1·98	+225
11. Punjab, East and North	7·6	+0·9	7·53	+1·14	+18	4·0	+0·7	3·42	+0·08	+2	1·5	+0·9	1·01	+0·63	+166
12. Do., Southwest	2·6	—0·5	1·93	—0·63	—25	1·6	+0·2	1·07	—0·05	—4	1·4	+1·2	0·60	+0·50	+500
13. Kashmir	8·6	+0·1	7·98	+0·27	+4	2·6	—1·4	1·51	—2·03	—57	2·8	+1·1	1·68	+0·63	+69
14. North-West Frontier Province	2·4	—1·6	1·51	—1·65	—52	1·9	0	1·04	—0·14	—12	2·0	+1·3	0·80	+0·47	+142
15. Baluchistan	0·9	—0·7	0·43	—0·52	—55	0·1	—0·3	0·05	—0·19	—79	0·1	—0·2	0·04	—0·11	—73
16 Sind	1·8	—0·5	1·22	—0·69	—36	0·3	—0·5	0·14	—0·48	—77	0·5	+0·5	0·27	+0·22	+440
17. Rajputana, West	10·0	+5·0	9·94	+5·90	+146	0·9	—1·5	0·53	—1·49	—74	1·5	+1·1	0·75	+0·44	+142
18. Do., East.	16·1	+6·3	14·43	+6·08	+73	4·6	—0·3	3·01	—0·99	—25	3·4	+2·7	2·27	+1·74	+328
19. Gujarat	18·3	+7·5	16·95	+8·81	+108	4·8	—0·9	3·20	—1·45	—31	5·7	+4·5	4·56	+3·65	+401
20. Central India, West	17·3	+5·4	17·30	+6·12	+55	9·9	+3·6	9·08	+3·81	+72	6·0	+4·9	3·92	+3·10	+378
21. Do. do., East	16·3	+2·1	12·01	—1·28	—10	11·6	+3·9	10·79	+4·10	+61	5·2	+3·5	4·57	+3·14	+220
22. Berar	16·7	+6·4	11·12	+4·17	+60	10·1	+2·3	8·09	+2·25	+39	9·7	+7·4	9·30	+7·72	+489
23. Central Provinces, West	19·9	+5·4	18·31	+5·50	+43	12·9	+3·6	11·95	+4·34	+57	10·8	+5·4	7·71	+5·90	+326
24. Do. do., East	19·1	+3·3	20·61	+5·68	+38	11·4	+1·6	7·98	+0·34	+4	9·6	+6·7	7·28	+5·03	+224
25. Konkan	29·6	+5·3	37·23	+13·25	+55	15·0	—0·2	11·27	—1·25	—10	15·1	+9·5	16·33	+12·02	+279
26. Bombay Deccan	11·9	+2·4	7·56	+2·10	+38	9·0	+0·8	6·77	+1·15	+20	7·8	+3·3	5·84	+2·83	+94
27. Hyderabad, North	12·6	+1·8	5·24	—1·99	—28	12·6	+2·7	9·55	+1·45	+18	7·8	+4·5	5·56	+3·26	+142
28. Do., South	8·0	—2·2	3·05	—3·26	—52	14·4	+4·8	11·22	+1·40	+65	5·9	+0·7	2·63	—0·39	—13
29. Mysore	10·7	+2·0	8·10	+2·87	+55	9·8	+1·2	5·65	+0·47	+9	3·5	—4·3	1·39	—3·01	—74
30. Malabar	26·3	+10·4	37·43	+24·95	+2·0	11·4	0	5·79	—2·04	—26	9·0	—4·4	5·33	—5·86	—52
31. Madras, Southeast	4·4	—1·0	2·13	—1·49	—41	5·0	—1·1	3·87	—0·68	—14	6·1	—2·7	4·86	—2·25	—32
32. Do. Deccan	2·8	—3·8	1·07	—2·84	—73	9·1	+1·2	6·35	+0·66	+10	4·9	—0·8	2·63	—1·49	—36
33. Do. Coast, North	10·8	+0·6	6·89	—0·29	—4	10·6	+1·2	7·61	+0·64	+9	12·3	+4·2	13·11	+6·37	+95

rainfall and number of rainy days with their departures from normal in 1931—concld.

November.					December.					Year.				
Rainy days.		Rainfall.			Rainy days.		Rainfall.			Rainy days.		Rainfall.		
Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
2·7	—4·4	1·65	—4·15	—72	2·7	—0·7	2·46	—0·91	—27	101·1	+2·8	75·71	—2·18	—3
0·6	—2·8	0·54	—2·09	—79	0·6	—0·2	0·21	—0·21	—40	114·0	—4·8	116·96	—7·32	—6
2·7	—1·2	2·30	+0·36	+20	1·7	+0·9	0·71	+0·25	+54	63·5	—3·7	42·22	—4·73	—10
1·5	0	1·22	+0·29	+31	1·6	+0·8	0·62	+0·27	+77	116·8	+2·2	103·61	+3·24	+3
2·1	+1·1	1·98	+1·18	+147	0	0	0·08	—0·08	—50	88·3	+3·8	74·77	+0·33	0
2·7	+1·8	2·39	+0·97	+68	0·2	—0·2	0·04	—0·18	—82	76·6	+3·1	60·53	+2·06	+4
1·7	+1·0	1·10	+0·71	+182	0·2	—0·1	0·03	—0·11	—79	72·8	+4·9	50·71	—1·76	—3
1·0	+0·6	0·66	+0·37	+128	0·1	—0·1	0·03	—0·06	+67	53·1	—2·3	45·16	—3·20	—7
0	—0·3	0	—0·19	—100	0	—0·4	0	—0·22	—100	45·6	—0·4	39·15	—0·13	0
0	—0·3	0·01	—0·14	—93	0	—0·7	0·01	—0·34	—97	44·8	+2·2	39·46	+2·24	+6
0	—0·3	0	—0·13	—100	0	—0·9	0·01	—0·42	—98	30·6	+0·5	23·19	—0·03	0
0	—0·2	0	—0·08	—100	0	—0·5	0	—0·21	—100	18·0	+1·7	10·63	+0·65	+7
0·9	0	0·25	—0·22	—47	0·3	—2·8	0·15	—1·80	—93	50·9	—5·3	34·72	—6·82	—16
0·3	—0·2	0·05	—0·23	—82	0·3	—0·8	0·12	—0·42	—78	23·4	—3·6	11·67	—3·93	—25
0	—0·7	0	—0·27	—100	0·3	—1·2	0·11	—0·52	—83	16·0	—1·0	7·06	—1·06	—13
0	—0·1	0	—0·06	—100	0	—0·3	0	—0·09	—100	5·9	—3·2	3·02	—3·68	—55
0	—0·1	0	—0·06	—100	0·1	—0·1	0·02	—0·09	—82	19·8	+2·2	15·74	+3·28	+26
0	—0·3	0·01	—0·16	—94	0·2	—0·3	0·04	—0·17	—81	36·4	+2·4	29·67	+3·44	+13
0·4	+0·1	0·19	—0·01	—5	0·1	0	0·02	—0·02	—50	42·3	+4·9	38·45	+6·10	+19
0·5	—0·2	0·34	—0·11	—24	0·4	0	0·12	—0·05	—29	49·1	+7·7	42·55	+7·70	+22
0·6	0	0·19	—0·15	—44	0	—0·5	0·02	—0·24	—92	50·1	+0·2	38·98	—3·46	—8
2·9	+1·9	1·98	+1·39	+244	0·4	—0·3	0·16	—0·23	—59	65·4	+19·2	47·95	+15·52	+48
1·4	+0·6	0·89	+0·33	+59	0·4	—0·2	0·18	—0·19	—59	71·9	+15·2	57·32	+10·74	+23
2·3	+1·6	1·89	+1·49	+373	0	—0·6	0·01	—0·23	—97	71·5	+8·4	58·63	+4·89	+9
3·6	+2·1	2·24	+1·23	+122	2·1	+1·8	1·12	+0·98	+700	109·8	+15·7	148·23	+39·74	+37
3·6	+2·0	3·04	+2·03	+201	1·9	+1·4	0·99	+0·71	+254	57·8	+9·8	40·39	+9·48	+31
3·5	+2·2	2·75	+1·98	+257	0·9	+0·3	0·38	+0·02	+6	64·3	+14·4	43·03	+8·74	+25
3·8	+1·9	1·87	+0·81	+76	0·1	—0·3	0·08	—0·14	—64	54·8	+5·4	34·01	+3·34	+11
6·4	+2·6	4·67	+2·25	+93	2·5	+1·7	1·00	+0·65	+122	58·2	+2·8	36·71	+0·58	+2
9·3	+0·1	6·98	—0·16	—2	5·9	+3·3	5·02	+3·24	+182	121·7	+10·0	111·57	+11·36	+11
9·7	+1·8	7·46	—0·02	0	11·3	+7·1	13·39	+10·01	+296	50·8	+2·6	41·31	+5·67	+16
4·1	+0·8	2·12	—0·04	—2	1·2	+0·5	0·46	+0·05	+12	36·8	—3·1	20·63	—4·17	—17
5·6	+1·9	6·27	+2·58	+70	0·7	—0·2	0·60	—0·25	—29	59·5	+4·7	48·02	+6·80	+16

TABLE A-9.—*Average over the 15 Chief political divisions of the actual rainfall with its departure from normal for the four seasons of the year, and for the whole year, 1931.*

DIVISION.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO SEPTEMBER.			OCTOBER TO DECEMBER.			WHOLE YEAR.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
Burma	0·15	—0·18	—55	6·96	—3·54	—34	60·69	—1·60	—3	8·59	—0·59	—6	76·39	—5·91	—7
Assam	1·29	—0·91	—41	28·11	+3·05	+12	67·05	+0·88	+1	7·16	+0·22	+3	103·61	+3·24	+3
Bengal	1·64	+0·35	+27	13·06	+0·60	+4	51·71	—2·90	—5	8·36	+2·38	+40	74·77	+0·33	0
Bihar and Orissa	2·36	+0·95	+67	2·27	—1·74	—43	39·57	—3·00	—7	5·92	+2·18	+58	50·12	—1·66	—3
United Provinces	1·23	—0·28	—19	0·61	—0·78	—56	34·19	+0·71	+2	3·28	+1·48	+82	39·31	+1·13	+3
Punjab	1·26	—0·66	—34	1·85	—0·08	—4	16·01	+0·75	+5	0·91	+0·10	+12	20·03	+0·11	+1
North-West Frontier Province	2·48	+0·01	0	3·10	—1·10	—26	5·12	—2·66	—34	0·97	—0·18	—16	11·67	—3·93	—25
Sind	0·35	—0·17	—33	0·49	0	0	1·91	—3·68	—65	0·27	+0·07	+35	3·02	—3·68	—55
Rajputana	0·03	—0·50	—86	0·49	—0·38	—44	22·43	+3·26	+17	1·78	+1·03	+137	24·78	+3·91	+16
Bombay	0	—0·20	—100	0·28	—0·68	—44	48·08	+8·16	+20	9·97	+6·47	+185	58·93	+13·75	+30
Central India	0·33	—0·52	—61	0·11	—0·75	—87	36·79	+3·46	+10	4·47	+2·90	+185	41·70	+5·09	+14
Central Provinces	1·15	—0·16	—12	0·81	—0·86	—51	44·19	+3·51	+9	9·55	+6·79	+246	55·70	+9·23	+20
Hyderabad	0·09	—0·33	—79	1·45	—0·46	—24	30·48	+4·08	+15	6·74	+2·90	+76	38·76	+6·19	+19
Mysore	0	—0·26	—100	5·06	—0·29	—5	24·59	+2·23	+10	7·06	—1·11	—14	36·71	+0·58	+2
Madras	0·57	—0·61	—52	5·13	—0·86	—14	32·40	+3·42	+12	20·27	+4·46	+28	58·37	+6·41	+12
Mean of India	0·77	—0·23	—23	4·14	—0·91	—18	38·11	+1·42	+4	7·27	+2·24	+45	50·29	+2·52	+5

TABLE A-10.—*Average over the 33 sub-divisions of the actual rainfall with its departure from normal for the four seasons of the year and for the whole year, 1931.*

Sub-Division.	January and February.			March to May.			June to September.			October to December.			Whole Year.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1. Bay Islands	0·73	—0·95	—57	4·95	—6·04	—55	49·91	+0·86	+2	20·12	+3·93	+24	75·71	—2·18	—3
2. Lower Burma	0·15	—0·18	—55	9·18	—4·77	—34	98·24	—0·91	—1	9·89	—1·46	—13	116·96	—7·32	—6
3. Upper Burma	0·15	—0·18	—55	5·13	—2·49	—33	29·01	—2·21	—7	7·93	+0·15	+2	42·22	—4·73	—10
4. Assam	1·29	—0·91	—41	28·11	+3·05	+12	67·05	+0·88	+1	7·16	+0·22	+3	103·61	+3·24	+3
5. Bengal	1·64	+0·35	+27	13·06	+0·50	+4	51·71	—2·90	—5	8·36	+2·38	+40	74·77	+0·33	0
6. Orissa	2·19	+0·59	+37	3·81	—1·94	—34	42·76	—1·96	—4	11·77	+5·37	+84	60·53	+2·06	+4
7. Chota Nagpur	4·99	+3·12	+167	1·92	—1·79	—48	38·68	—4·76	—11	5·12	+1·67	+48	50·71	—1·76	—3
8. Bihar	1·35	+0·23	+21	1·69	—1·64	—49	38·55	—2·63	—6	3·57	+0·84	+31	45·16	—3·20	—7
9. United Provinces, East	0·98	—0·20	—17	0·81	—0·98	—74	34·13	—0·49	—1	3·73	+1·44	+63	39·15	—0·13	0
10. Do. do., West	1·44	—0·85	—20	0·88	—0·68	—44	34·26	+1·77	+5	2·88	+1·50	+109	39·46	+2·24	+6
11. Punjab, East and North	1·54	—0·67	—30	1·79	—0·26	—13	18·84	+0·82	+5	1·02	+0·08	+9	23·19	—0·03	0
12. Do., Southwest	0·45	—0·58	—56	2·02	+0·44	+28	7·56	+0·58	+8	0·60	+0·21	+54	10·63	+0·65	+7
13. Kashmir	8·59	+1·43	+20	6·49	—3·57	—35	17·56	—3·29	—16	2·08	—1·39	—40	34·72	—6·82	—16
14. North-West Frontier Province	2·48	+0·01	0	3·10	—1·10	—26	5·12	—2·66	—34	0·97	—0·18	—16	11·67	—3·93	—25
15. Baluchistan	4·28	+1·88	+78	1·47	—0·76	—34	1·16	—1·28	—52	0·15	—0·90	—86	7·06	—1·06	—13
16. Sind	0·36	—0·17	—33	0·49	0	0	1·91	—3·58	—65	0·27	+0·07	+35	3·02	—3·68	—55
17. Rajputana, West	0·06	—0·36	—86	0·62	—0·15	—19	14·29	+3·50	+32	0·77	+0·29	+60	15·74	+3·28	+26
18. Do., East	0·09	—0·58	—87	0·42	—0·51	—55	26·84	+3·12	+13	2·32	+1·41	+155	29·67	+3·44	+13
19. Gujarat	0	—0·19	—100	0·11	—0·32	—74	33·57	+2·99	+10	4·77	+3·62	+315	38·45	+6·10	+19
20. Central India, West	0·14	—0·55	—80	0·10	—0·70	—87	37·93	+6·01	+19	4·38	+2·94	+204	42·55	+7·70	+22
21. Do. do., East	0·97	—0·41	—30	0·14	—0·96	—87	33·09	—4·84	—13	4·78	+2·75	+135	38·98	—3·46	—8
22. Berar	0·12	—0·68	—84	0·39	—0·72	—65	36·02	+8·00	+29	11·42	+8·88	+350	47·95	+15·53	+48
23. Central Provinces, West	1·26	—0·08	—6	0·77	—0·67	—47	46·56	+5·45	+13	3·73	+6·04	+225	57·32	+10·74	+23
24. Do. do., East	1·61	+0·04	+3	1·07	—1·05	—50	46·77	—0·84	—1	9·18	+6·24	+212	58·63	+4·89	+9
25. Konkan	0	—0·15	—100	0·78	—1·22	—61	127·76	+26·88	+27	19·69	+14·23	+261	148·23	+39·74	+37
26. Bombay, Deccan	0	—0·24	—100	1·42	—0·69	—33	29·10	+4·84	+20	9·87	+5·57	+130	40·39	+9·48	+31
27. Hyderabad, North	0·15	—0·26	—63	0·97	—0·64	—40	33·22	+4·38	+15	8·69	+5·26	+153	43·03	+8·74	+25
28. Do., South	0·01	—0·41	—98	1·99	—0·26	—12	27·43	+3·73	+16	4·58	+0·28	+7	34·01	+3·34	+11
29. Mysore	0	—0·25	—100	5·06	—0·29	—5	24·59	+2·23	+10	7·06	—1·11	—14	36·71	+0·58	+2
30. Malabar	0·20	—1·23	—86	10·40	—2·07	—17	83·64	+17·44	+26	17·33	—2·78	—14	111·57	+11·36	+11
31. Madras, Southeast	1·16	—0·30	—21	4·37	+0·03	+1	10·07	—1·80	—15	25·71	+7·74	+43	41·31	+5·67	+16
32. Do., Deccan	0·02	—0·32	—94	2·05	—0·43	—17	13·30	—1·94	—13	5·26	—1·48	—22	20·63	—4·17	—17
33. Do. Coast, North	0·12	—0·65	+84	2·22	—1·33	—37	25·70	+0·08	0	19·98	+8·70	+77	48·02	+6·80	+16

TABLE A-11.—*Average over the 33 sub-divisions of actual number of rainy days with their departures from normal for the four seasons of the year, and for the whole year, 1931.*

SUB-DIVISION.	JANUARY AND FEBRUARY.		MARCH TO MAY.		JUNE TO SEPTEMBER.		OCTOBER TO DECEMBER.		WHOLE YEAR.	
	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.
1. Bay Islands	2·0	—0·4	11·0	—2·4	65·7	+3·9	22·4	+1·7	101·1	+2·8
2. Lower Burma	0·2	—0·4	10·9	—4·2	90·0	+1·4	12·0	—1·6	114·0	—4·8
3. Upper Burma	0·3	—0·6	9·7	—1·8	41·6	—2·1	11·9	+0·8	63·5	—3·7
4. Assam	3·4	—1·6	34·6	+2·3	68·7	+0·4	10·1	+1·1	116·8	+2·2
5. Bengal	3·8	+1·4	14·8	—0·9	59·5	—0·3	10·2	+3·6	88·3	+3·8
6. Orissa	3·0	+0·4	6·7	—2·6	51·4	—2·9	15·5	+3·2	76·6	+3·1
7. Chota Nagpur	10·1	+6·5	4·5	—2·6	49·6	—2·8	8·6	+3·8	72·8	+4·9
8. Bihar	3·3	+0·9	3·2	—2·2	42·6	—1·7	4·0	+0·7	53·1	—2·3
9. United Provinces, East	3·0	+0·3	0·7	—1·9	38·3	0	3·6	+1·2	45·6	—0·4
10. Do. do., West	3·5	0	1·9	—1·7	36·6	+3·0	2·8	+0·9	44·8	+2·2
11. Punjab, East and North	4·0	—0·2	4·1	—0·4	21·0	+1·4	1·5	—0·3	30·6	+0·5
12. Do., Southwest	1·6	—0·9	4·7	+0·8	10·3	+1·3	1·4	+0·5	18·0	+1·7
13. Kashmir	13·8	+3·7	12·4	—3·5	20·7	—3·8	4·0	—1·7	50·9	—5·3
14. North-West Frontier Province	5·7	+0·7	7·1	—1·5	8·0	—3·1	2·6	+0·3	23·4	—3·6
15. Baluchistan	9·1	+4·0	3·9	—1·3	2·6	—1·6	0·4	—2·1	16·0	—1·0
16. Sind	1·4	+0·1	0·8	—0·8	3·2	—3·1	0·5	+0·1	5·9	—3·2
17. Rajputana, West	0·2	—0·8	1·7	—0·1	16·1	+2·2	1·6	+0·9	19·6	+2·2
18. Do., East	0·3	—1·3	1·2	—1·1	31·3	+2·7	3·6	+2·1	36·4	+2·4
19. Gujarat	0	—0·4	0·3	—0·6	35·8	+1·3	6·2	+4·6	42·3	+4·9
20. Central India, West	0·5	—1·0	0·3	—1·5	41·4	+5·5	6·9	+4·7	49·1	+7·7
21. Do. do., East	2·8	—0·1	0·4	—2·2	41·1	—0·4	5·8	+2·9	50·1	+0·2
22. Berar	0·5	—0·9	1·3	—1·2	50·6	+12·8	13·0	+9·0	65·4	+19·2
23. Central Provinces, West	3·1	+0·7	2·1	—1·2	54·1	+6·9	12·6	+8·8	71·9	+15·2
24. Do. do., East	3·6	+0·9	3·1	—1·5	52·9	+1·3	11·9	+7·7	72·5	+8·4
25. Konkan	0	—0·3	1·5	—1·1	87·5	+3·7	20·8	+13·4	109·8	+15·7
26. Bombay, Deccan	0	—0·5	2·9	—1·1	41·6	+4·7	13·3	+6·7	57·8	+9·8
27. Hyderabad, North	0·5	—0·3	2·6	—0·9	49·0	+3·6	12·2	+7·0	64·3	+14·4
28. Do., South	0	—0·3	4·5	—0·1	41·4	+4·0	8·9	+2·3	54·8	+5·4
29. Mysore	0	—0·4	9·3	+0·4	36·5	+2·8	12·4	0	58·2	+2·8
30. Malabar	0·6	—1·5	16·1	—0·8	80·3	+13·3	24·2	—1·0	121·7	+10·6
31. Madras, Southeast	2·1	+0·1	5·5	—1·1	16·0	—2·2	27·2	+5·8	50·8	+2·6
32. Do., Deccan	0	—0·5	4·0	—0·5	22·6	—2·6	10·2	+0·5	36·8	—3·1
33. Do. Coast, North	0·3	—0·3	4·0	—1·6	37·6	+1·2	17·6	+5·9	59·5	+4·7

TABLE A-12.—*Showing rainfall of 10" and over, with amounts in the preceding and following 24 hours, during the year 1931.*

BURMA.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Akyab . . .	Akyab . . .	9th June	0·09	10·70	1·45

ASSAM.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Khasi and Jaintia Hills.	Cherrapunji Police Station.	22rd April	4·83	11·41	0·50
Do. .	Cherrapunji Welsh Mission House.	23rd April	7·06	14·13	0·95
Do. .	Do. .	28th April	3·17	10·14	3·24
Do. .	Do. .	5th May	2·49	10·05	2·80
Cachar . . .	Bikrampur . .	9th June	4·69	10·25	2·12
Khasi and Jaintia Hills.	Shillong . .	26th June	5·45	10·84	10·29
Do. .	Do. . .	27th June	10·84	10·29	2·82
Do. .	Mawphlang . .	25th June	4·00	11·30	12·40
Do. .	Do. . .	26th June	11·30	12·40	10·95
Do. .	Do. . .	27th June	12·40	10·95	5·10
Do. .	Cherrapunji Police Station.	24th June	2·00	10·13	18·72
Do. .	Do. .	25th June	10·13	18·72	16·50
Do. .	Do. .	26th June	18·72	16·50	17·21
Do. .	Do. .	27th June	16·50	17·21	10·74
Do. .	Do. .	28th June	17·21	10·74	7·45
Do. .	Cherrapunji Welsh Mission House.	17th June	7·85	10·18	7·47
Do. .	Do. .	24th June	2·26	13·76	19·31
Do. .	Do. .	25th June	13·76	19·31	31·84
Do. .	Do. .	26th June	19·31	31·84	29·37
Do. .	Do. .	27th June	31·84	29·37	12·89
Do. .	Do. .	28th June	29·37	12·89	9·18
Do. .	Do. .	30th June	9·18	14·80	3·90
Cachar (North Cachar Hills).	Jatinga Valley .	9th June	0·69	10·02	4·05
Sadiya Frontier Tract	Denning . .	25th June	3·50	12·50	4·90
Do. .	Pasighat . .	24th June	1·89	15·58	5·69
Kamrup . . .	Barduar . .	23rd July	4·22	11·81	2·12
Khasi and Jaintia Hills.	Cherrapunji Police Station.	8th July	5·72	15·17	5·74
Do. .	Do. .	22rd July	9·87	13·42	14·25
Do. .	Do. .	24th July	13·42	14·25	6·50
Do. .	Cherrapunji Welsh Mission House.	8th July	9·84	25·61	10·23

ASSAM—*contd.*

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Khasi and Jaintia Hills—*contd.*	Cherrapunji Welsh Mission House—*contd.*	9th July	25·61	10·23	9·76
Do. .	Do. .	22rd July	9·85	18·85	16·52
Do. .	Do. .	24th July	18·85	16·52	7·98
Do. .	Do. .	28th July	7·92	11·17	3·83

BENGAL.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Rangpur . .	Bagdogra . .	15th June	0·04	10·93	0
Chittagong Hill tracts.	Nakhyongchhari .	8th July	3·43	10·45	1·64
Midnapore . .	Ramnagar . .	4th Oct.	1·95	10·68	0·17
Cooch Behar . .	Mieligunj . .	1st Oct.	1·30	10·00	0·40

BIHAR AND ORISSA.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Angul . . .	Angul . . .	21st Aug.	6·94	10·13	0·02
Shahabad . .	Manoharpur . .	5th Sept.	1·90	10·61	1·10

UNITED PROVINCES.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Gonda . . .	Gonda . . .	21st July	0·91	10·13	5·45
Dehra Dun . .	Mussooree . .	3rd Aug.	0·75	11·21	3·10
Bareilly . . .	Baheri . . .	25th Sept.	1·31	14·70	0·98

TABLE A-12.—*Showing rainfall of 10" and over, with amounts in the preceding and following 24 hours, during the year 1931*—contd.

RAJPUTANA.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Ajmer-Merwara	Kekri	18th July	0·70	12·35	1·27

CENTRAL PROVINCES AND BERAR.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Chanda	Ahiri	14th Aug.	0·26	10·91	1·52
Balaghat	Langi	16th Aug.	0·62	11·13	0·12
Do.	Do.	22nd Aug.	0·22	10·15	1·75
Do.	Fagla	22nd Aug.	0·90	14·50	0·70

BOMBAY.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
North Kanara	Ankola	14th July	5·47	11·68	2·99
Do.	Kunta	14th July	4·95	11·40	2·88
Do.	Honavar	24th July	0·19	10·88	6·85
Savant Vadi	Banda	25th July	5·53	13·12	14·29
Do.	Do.	26th July	13·12	14·29	2·68
Do.	Kudal	25th July	8·40	10·82	8·99
Ratnagiri	Rajapur	13th July	4·86	13·55	3·54
Do.	Sangameshwar	6th July	4·79	11·70	3·59
Do.	Mandangad	25th July	3·77	13·76	2·47
Kolaba	Roha	25th July	1·30	11·90	3·90
Thana	Vada	4th July	7·39	10·61	3·45
Surat	Jalalpore	3rd July	1·00	10·05	0·77
Do.	Bulsar	5th July	0·48	13·38	1·31
Surat Agency	Dharampur	3rd July	0·58	10·00	2·50
Broach	Ilav	3rd July	0·09	11·50	0·58

BOMBAY—*contd.*

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Navasari	Navasari	2nd July	0·91	10·20	0·40
Ratnagiri	Mandangad	8th Aug.	5·31	11·01	2·00
Panch Mahals	Godhra	24th Aug.	1·17	10·45	1·09
Do.	Kalol	24th Aug.	0·86	11·55	1·24
Rewa Kantha	Wadasinor	24th Aug.	0·40	11·96	0·17
Mahikantha	Mohanpur	23rd Aug.	0·12	10·45	0·49
Banas Kantha	Tharad	17th Aug.	0·33	10·15	0·65

MADRAS.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
South Arcot	Manambadi (Porto Novo).	14th April	4·06	15·58	0·20
Do.	Chidambaram	14th April	2·45	13·16	0·23
Vizagapatam Agency	Nowrangapur	15th Aug.	1·45	10·61	3·79
Do.	Jeypore	15th Aug.	4·14	10·82	1·31
Coorg	Bhagamandla	7th Aug.	3·52	10·76	9·82
Vizagapatam (Plains)	Bobbili	14th Oct.	1·44	11·12	0
Do.	Saiur	14th Oct.	1·02	11·50	0·11
Do.	Gajapatinagaram	14th Oct.	1·60	20·10	0·20
Do.	Chipurupalle	14th Oct.	3·83	13·94	0·09
Do.	Vizianagram	14th Oct.	2·22	14·10	0·04
Do.	Srungavarapukota	14th Oct.	1·35	10·10	0
Do.	Bimlipatam	14th Oct.	1·98	10·24	0·43
Vizagapatam Agency	Pottanghi	14th Oct.	0·92	21·50	0·60
Nellore	Iskapalle	31st Oct.	3·60	11·00	0·28
Do.	Sulurpet	30th Oct.	2·50	12·10	3·14
The Nilgiris	Kodanad	2nd Nov.	0	11·00	0
South Arcot	Cuddalore	12th Dec.	3·71	16·79	0·16
Tanjore	Nannilam	24th Dec.	4·51	10·32	0·73
Do.	Negapatam	24th Dec.	4·91	14·44	0
Do.	Tiruppundi	24th Dec.	5·15	14·62	0·22
Do.	Vedaranniyam	23rd Dec.	0	11·75	13·60
Do.	Do.	24th Dec.	11·75	13·60	0·13

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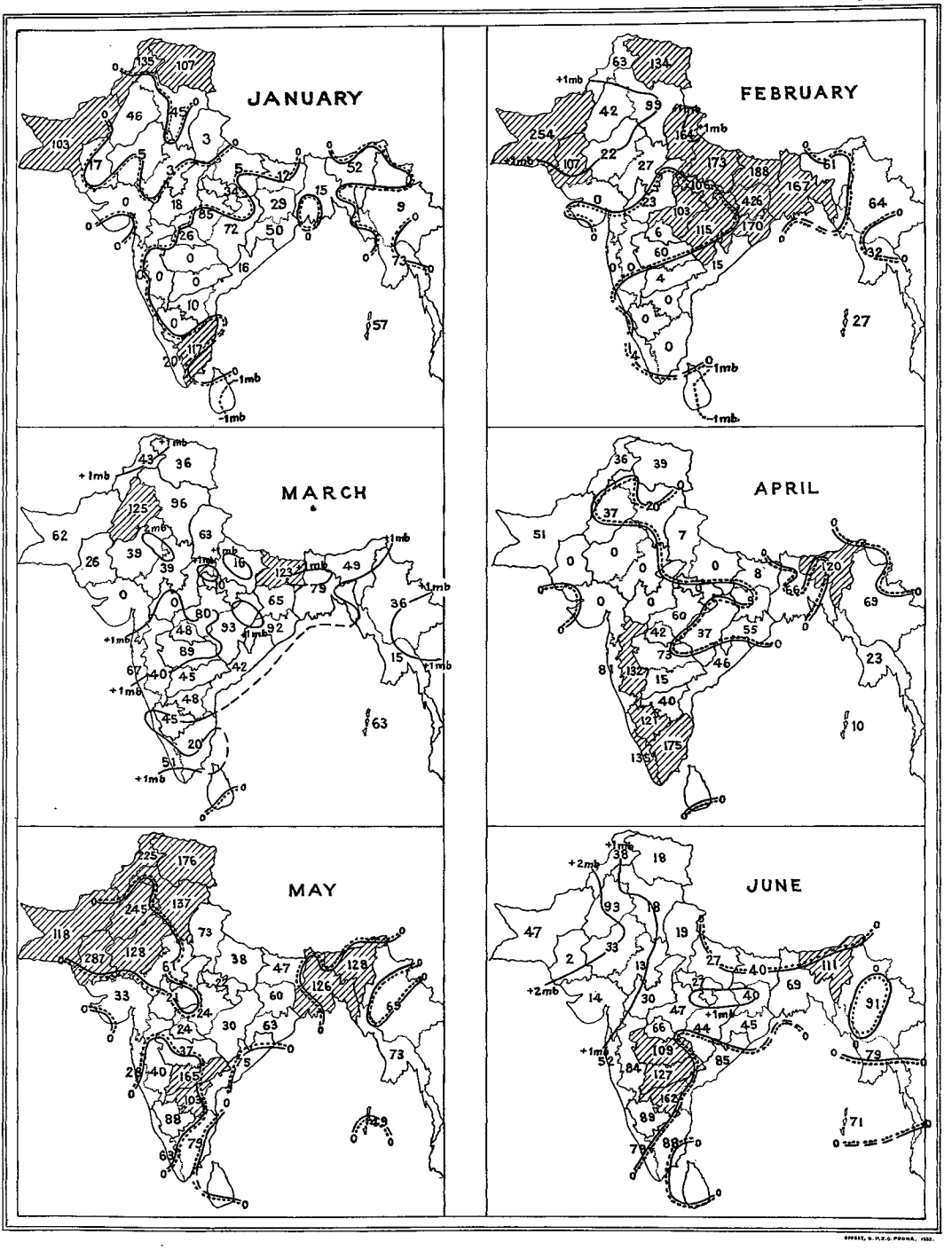
SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS)
AND MEAN MONTHLY PRESSURE ANOMALIES (IN MILLIBARS)

1931

Plate A 1.



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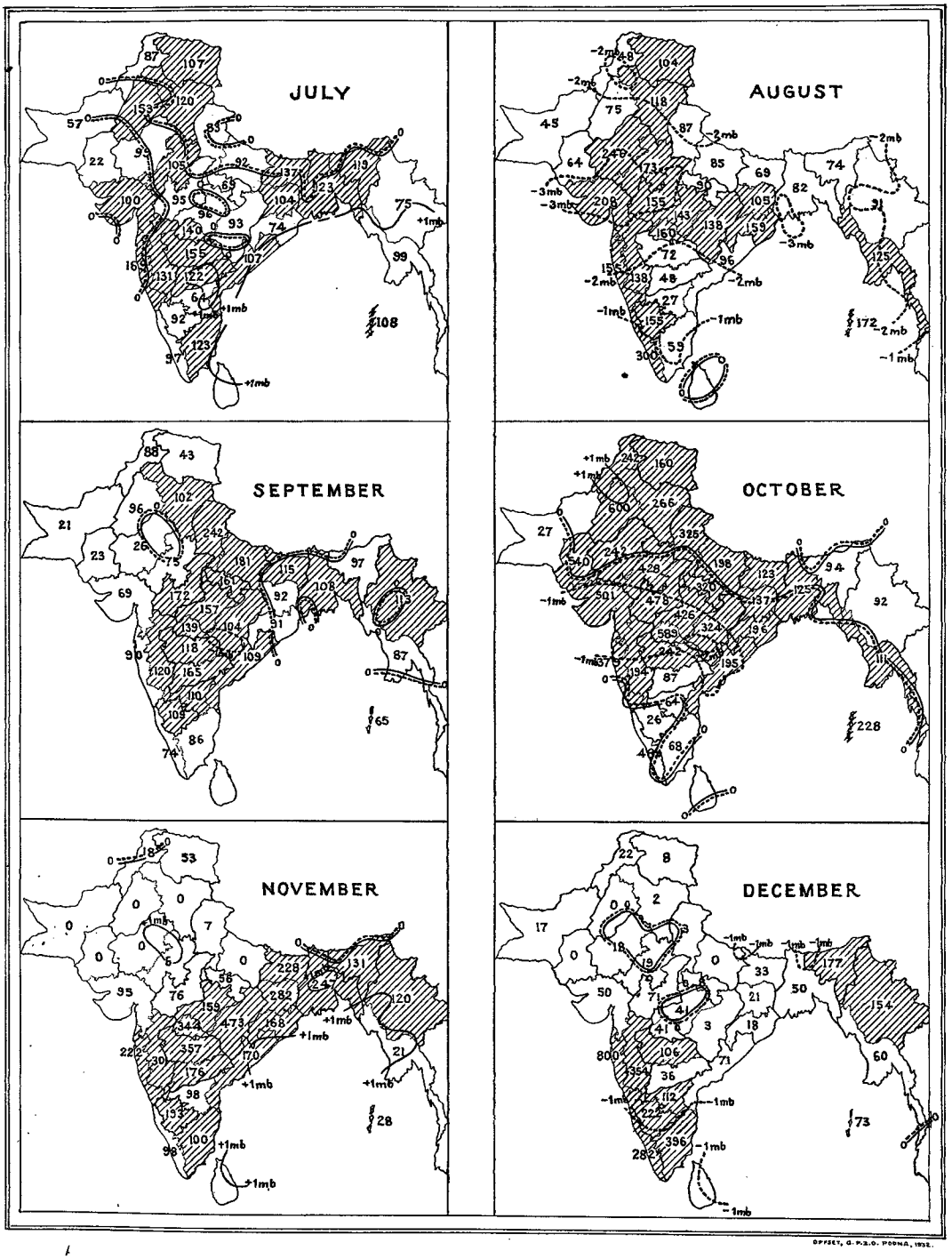
AND MEAN MONTHLY PRESSURE ANOMALIES (IN MILLIBARS)

1931

Plate A 2.



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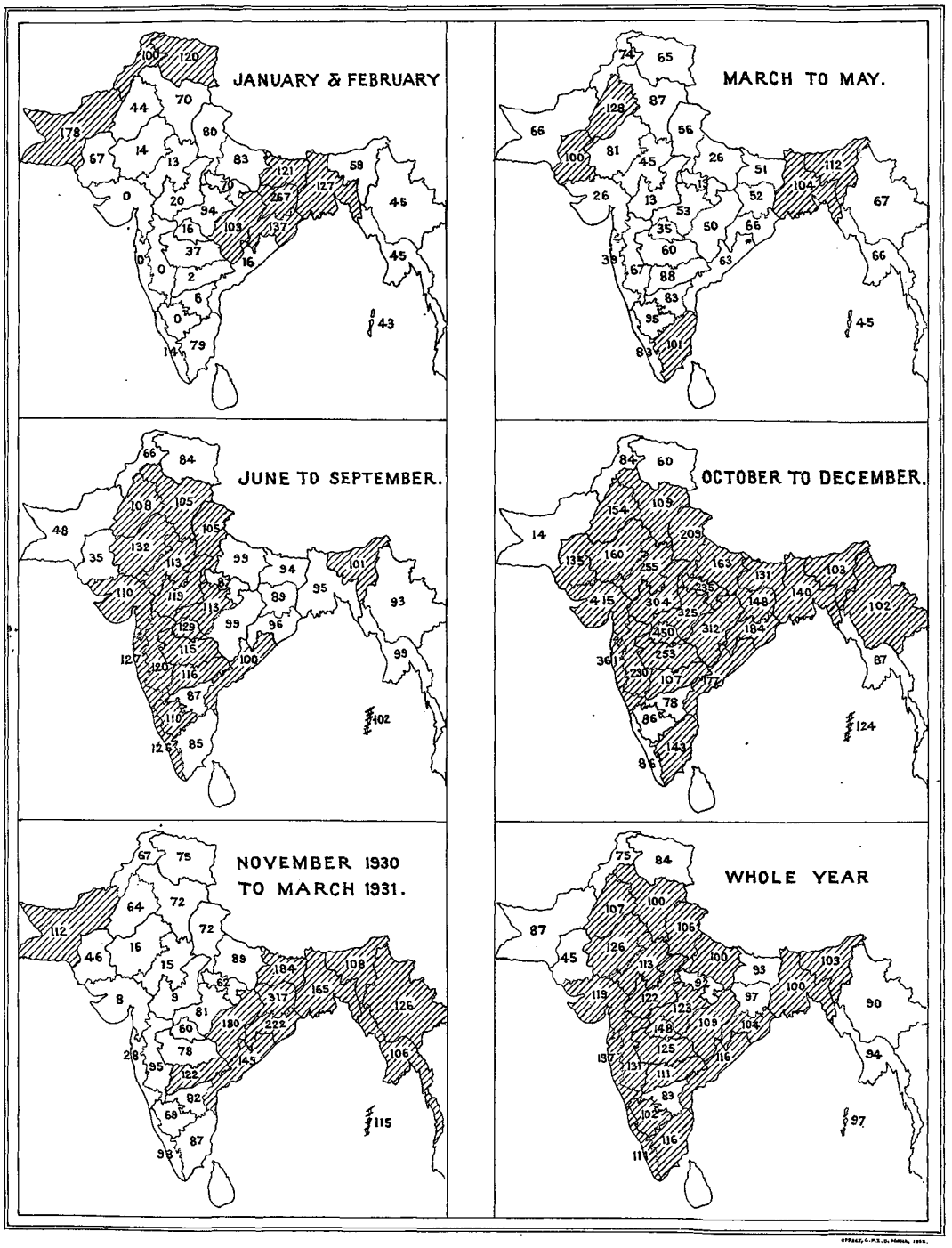
SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS)
IN DIFFERENT PERIODS OF THE YEAR 1931

Plate A 3.



GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW

ANNUAL SUMMARY FOR 1931

PART B

SNOWFALL

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UNDER THE DIRECTION OF

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Director General of Observatories

CALCUTTA: GOVERNMENT OF INDIA
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ANNUAL SUMMARY, 1931.

PART B.[1]

SNOWFALL.

Cold-weather period, January and February.

I.—Persia.

No reports were received.

II.—Afghanistan.

Kabul.—Frequent falls occurred during the period under report. A heavy fall which gave 0″·91[2] of equivalent rain was reported on the 20th January 1931. Snowfall was unusually heavy in the eastern districts of Afghanistan, particularly round Ghazni.

III.—Baluchistan.

Quetta.—On nine days in January and thirteen days in February snow or rain fell. The amounts measured were 2″·55 and 5″·33 for January and February respectively. For both the months the falls were heavier than usual.

IV.—North-West Frontier Province.

(*a*) *Hazara.*—The snowfall for January was normal while that for February was above normal. The accumulations at the end of January were normal while at the close of February they were above normal. Abottabad reports normal falls for the period.

(*b*) *Dir, Swat and Chitral.*—Chitral had seven days of snowfall in January and eight days in February. The amounts were 2′ 5″ and 2′ 3½″ for the respective months and were above normal.

(*c*) *Khyber Agency.*—Snowfall was below the average.

(*d*) *Kohat.*—Fort Lockhart had 5½ feet and 1¼ feet of snowfall during January and February respectively.

(*e*) *North Waziristan.*—From the graduated snow-box set up at Razmak it was found that 2′ ½″ and 2′ 8½″ of snow fell in January and February respectively. The accumulations on the surrounding peaks were reported to be normal.

V.—Kashmir.

(*a*) *Skardu.*—Snow fell on twelve days in January which amounted to a total of 1″·02. February witnessed 9 days of fall with a total of 0″·72. Depths of accumulations measured 7′ and 5′ respectively for January and February.

(*b*) *Dras.*—Snowfalls were frequent during the months but no snowstorm was seen. The total amount was below normal.

(*c*) *Srinagar.*—The first fall was recorded on the 11th January and was followed by several others. The total precipitation during the month was 2″·25 being below normal. In February snow fell on 14 days in the main valley giving a total precipitation of 3″·52 which was slightly below normal.

(*d*) *Karyil.*—Snow fell on nine days each in January and February the amounts measured being 1″·04 and 2″·66 respectively for the months. On the higher passes snow lay to a depth of 3 ft. at the end of January and 3½ ft. at the end of February. The falls were defective during the period.

VI.—Punjab.

(*a*) *Rawalpindi.*—Snow fell five times in January and eleven times in February. The total amount during the former month was 1′ 6″ while during the latter it was 3′ 9½″. The falls during the season were above normal.

(*b*) *Kulu* (*Kangra District*).—During January there was no snowfall in the district except on the high ranges of the Himalayas. In February the falls were confined to elevations above 6,000 ft. M. S. L. Normal precipitation is recorded for the period.

(*c*) *Simla.*—On nine days in January and on seventeen days in February snow fell. The amounts measured ¾ ft. during January and 2 ft. 9½ inches in February and were below normal for both the months. The depths of accumulations at the various hill tops were as follows:—

Locality.	At the end of January.	At the end of February.
	Ft.	Ft.
Kailash Peak	15	20
Rupan Pass	10	13
Shatul Pass	9	11
Buran Pass	10	13

VII.—United Provinces.

(*a*) *Almora.*—The following tables give the actuals and accumulations of snow for the two months:—

[1] This part is based on the reports received mainly from the local Government officers who in their turn, collect the required information from the local residents.

[2] When amounts are given in inches it is to be understood that the snow has been melted and measured as water and when mentioned in feet the depth of snow lying on the ground is meant.

ACTUALS.

Locality.	Amounts of snow for January.	Amounts of snow for February.
	Ft.	Ft.
Biyans	5	43
Malla Darma	6	32

ACCUMULATIONS.

Locality.	At the end of January.	At the end of February.
	Ft.	Ft.
Nuwe Pass	15	35
Lampia Pass	18	48
Lepu Pass	12	33

Snowfall was below normal in January and above it in February.

(*b*) *Garhwal.*—During one day in January and eight days in February snowfall was recorded.

VIII.—ASSAM.

(*a*) *Kamrup.*—The following is a table of actual falls recorded during the period:—

Locality.	January.		February.	
	Ft.	in.	Ft.	in.
Khampa	1	2	1	4
Chirkimla	1	2	1	3
Ongla	0	3	0	4
Chungkhar	0	3	0	4
Pangkhar	0	3	0	3
Kapegangree	4	5	4	6
Toopkang	0	3	0	3
Oangchengla	1	6	1	8
Chakleng	1	2	1	4
Tawyoung	1	5	1	6
Katila	0	4	0	6
Thum Chengla	1	8	1	6
Bamtang	1	6	1	7
Cherkemla	1	0	1	½

Falls during the period were normal.

(*b*) *Sadiya Frontier Tract.*—There was no snowstorm during the period, and snowfall was less than normal.

(*c*) *Baliapara Frontier Tract.*—Severe snowstorms were reported. Se la, Bomru la, and Pakka La had accumulations to greater depths than usual.

The Hot Weather Period, March to May.

I.—PERSIA.

No reports have been received.

II.—AFGHANISTAN.

Kabul.—The last fall for the season occurred on the 6th March. At the end of May the accumulations on the Paghman range and on the Hindu Kush were above normal.

III.—BALUCHISTAN.

Quetta.—No snow fell during the period, and no trace of it was left on any pass in Baluchistan by the 1st of May. On the northern slopes of the higher peaks traces of snow were observed even as late as the 12th May, on which date actual snowfall was noted on "Kand" the peak at the head of the Zhob valley—elevation 10,800 ft. M. S. L.

IV.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Hazara.*—The falls were above normal. The depths of accumulations of snow between the heights of 10,000 to 17,500 ft. above mean sea level ranged from 2¾ ft. to 7 ft. at the end of the period.

(*b*) *Dir, Swat and Chitral.*—Chitral reported two days of snowfall for each of the months April and May at elevations above 7,000 ft. The total amounts were 4 inches and 1 inch respectively for the months. On the Lowari pass at a height of 10,000 ft. above mean sea level the accumulations were reported to be 2 ft.

(*c*) *Khyber Agency.*—Very little snowfall was experienced.

(*d*) *Kohat.*—1′ 5″ of snow was reported for March 1931. No more falls occurred during the rest of the period.

(*e*) *North Waziristan.*—Razmak reports ¼ ft. of snow in March and normal accumulations at the end of May.

(*f*) *Dera Ismail Khan.*—Snow lay on the Takht-i-Suleiman till about the middle of April.

V.—KASHMIR.

(*a*) *Skardu.*—Snowfall was reported for one day in March, six days in April and eleven days in May. The amounts

of total precipitation recorded were 0″·39, 2″·44 and 1″·16 respectively for the three months.

(*b*) *Dras.*—Several light falls of snow occurred during March and April but no snow storm. In May three snowfalls were recorded. At the end of March all the surrounding passes and peaks were covered with deep snow while the station had a sheet of snow 2½″ deep. By the last week of April no snow existed on the ground, the peaks towards the west and south had a thick cover of snow and those towards the north and east had but a light coating. Conditions were not very different at the end of May. Both the falls and accumulations throughout the period were below normal.

(*c*) *Srinagar.*—March witnessed three light falls in the main valley, April five on the surrounding hills while May recorded several light falls on the surrounding high mountains. The precipitation figures for the respective months were 0″·71, 2″·39 and 4″·34. These were below normal during the first two months and above it during the last month of the period.

(*d*) *Kargil.*—Snow fell on two days in March and one day in April amounting to 0″·33 and 0″·01 of equivalent rain. There were no falls in May. The snowfall for the whole period was less than normal. The depths of accumulations on the well-known higher passes of the district were 2½ ft. at the end of March and 2 ft. at the end of April.

VI.—Punjab.

(*a*) *Rawalpindi.*—On three days in March falls occurred, the total height being 3½ ft. By the end of March there was no trace of snow on the surrounding hills.

(*b*) *Chamba.*—The rainy days in May were generally accompanied by light falls of snow on altitudes above 9,500 ft. The accumulations on the well-known passes and peaks at the end of the period were reported to be 6″ deep and were below normal.

(*c*) *Kulu* (*Kangra District*).—During the month of March the falls were confined to elevations above 8,000 ft. M. S. L. None was observed during April while in May falls were experienced at heights above 10,000 ft. M. S. L. Accumulations at the end of May on the well-known passes and peaks are set forth in the following table :—

Locality.	Depth of Accumulations.
	Ft.
Rohtang Pass	5
Hampta Pass	8
Pujadhar	3½
Chandarkhani	3

Both the falls and accumulations were above normal.

(*d*) *Kilba* (*Simla District*).—Snow fell on eight days in March, two days in April and nine days in May. The total amounts for the respective months were 2 ft. 2½ in., ⅛ ft. and ⅝ ft. The accumulations at the end of each month on the well-known peaks and passes are given in the following table :—

Locality.	Depth of accumulations.		
	March.	April.	May.
	Ft.	Ft.	Ft.
Kailash Peak	19	12	9
Rupan Pass	12	7	4
Buran Pass	12	6	3½
Shatul Pass	10	6	3½

The falls and accumulations were normal for the period.

VII.—United Provinces.

(*a*) *Almora.*—The following tables give an idea of the falls and accumulations by the end of each of the months of the period :—

Actuals.

Locality.	March.	April.	May.
	Ft.	Ft.	Ft.
Biyans	6½	8½	5
Malla Darma	12½	3½	5½
Malla Johar	..	..	6
Malla Danpur	..	..	1½

Accumulations.

Locality.	March.	April	May.
	Ft.	Ft.	Ft.
Nuwe Pass	12½	15	14
Lepu Lekh Pass	5	10	10
Lampia Pass	7½	14	15
Pindari Pass	..	..	4
Kafini Pass.	..	..	4
Kantila Pass	..	..	4
Puwalidwar Pass	..	..	4
Nandakote Pass	..	..	4

Average conditions are reported for March while for the rest of the period they were above the average.

(*b*) *Garhwal.*—During the first week of March two falls—the last for the season—were witnessed.

VIII.—ASSAM.

(*a*) *Kamrup.*—The following table gives the amounts of falls reported during March :—

Locality.	Amount.	
	Ft.	in.
Khampa	1	0
Chirkimla	1	0
Ongla	0	8
Chungkhar	0	3
Pangkhar	0	2
Kapegangree	3	0

VIII.—ASSAM—*contd.*

Locality.	Amount.	
	Ft.	in.
Toopkang	0	2
Oangchengla	1	0
Chakleng	0	10
Tawyoung	1	0
Karila	0	5
Thum Chengla	1	0
Bamtang	0	11
Cherkemla	0	10

(*b*) *Sadiya Frontier Tract.*—There was snowfall in the latter part of April which is rather unusual. Falls were normal in character.

(*c*) *Baliapara Frontier Tract.*—Accumulations are reported to be more than usual.

South-West Monsoon Period, June to September.

JUNE AND JULY.

I.—PERSIA.

No reports have been received.

II.—AFGHANISTAN.

Kabul.—The Hindu Kush and Paghman ranges had more snow than last year. By the middle of July all the passes to the north were open.

III.—BALUCHISTAN.

No reports were received.

IV.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Dir, Swat and Chitral.*—Round about Malakand no snow fell during the period under report. Accumulations on the Lowarai peak were normal while those on the Swat hills were less than normal.

On the mountains near Drosh two light falls occurred in July; accumulations at the end of the period at heights of 12,000 ft. and 13,000 ft. were 3 feet and 6 to 10 ft. respectively. Chitral reports a fall ½ ft. in July.

(*b*) *Khyber Agency.*—Near about Tirah no falls are reported during the period.

By the end of the period Lakarai, and Gurdama had deep accumulations of snow while only traces were visible on Audina and Malaka.

(*c*) *Kurram.*—No falls were reported. The accumulations at the end of the period were slightly more than normal.

(*d*) *South Waziristan.*—At the end of the period no snow remained on the mountains in Waziristan.

V.—KASHMIR.

(*a*) *Skardu.*—Fresh snowfall was observed on the high peaks on the 26th June. Accumulations on the neighbouring peaks at the end of the period measured about 1½ ft.

(*b*) *Dras.*—No snowfall or snowstorm occurred at the station during the period; the surrounding mountains had two falls in July. At the end of June slight snow existed on the neighbouring peaks, while at the end of the period they were confined to the distant higher peaks.

(*c*) *Srinagar.*—A few light falls of snow were observed on the surrounding high mountains in June, while during July moderate falls descending to lower mountain skirts were visible. Accumulations at the end of the period were greater than normal.

(*d*) *Gulmarg.*—Several fresh light to moderate falls of snow were observed on the Affarwat range during June. In July light falls on two days were observed on the surrounding high mountain ranges. The accumulations at the end of the period are reported to be in defect.

(*e*) *Kargil.*—No snowfall was experienced during the period. The depth of accumulations on the well-known higher passes of the district measured one foot at the end of June and six inches by the end of July.

(*f*) *Sonamarg.*—Snow accumulation on the well-known passes and peaks was comparatively greater than last year.

(*g*) *Gurez.*—From the 23rd June to the 10th July weather remained rainy with lightning, thunder, hail-storms, and mist followed by light snowfalls on high peaks. Tragbal pass had ½ ft. of snow and Burzil one foot.

VI.—Punjab.

(*a*) *Chamba.*—In June, during rainy days light falls of snow occurred at elevations of 12,000 ft. and above, in the Ravi valley. In the Chenab valley light falls of snow were experienced at elevations of 11,000 feet and above. In July snowfall was below the average. The accumulations at the end of the period were nearly normal.

(*b*) *Kilba* (*Simla District*).—There was no snowfall on the Kilba range during the period. The following is a statement of accumulations on the well-known passes and peaks at the end of June and July :—

Locality.	Accumulations at the end of			
	June.		July.	
	Ft.	In.	Ft.	In.
Kailash Peak	7	0	7	0
Rupan Pass	2	6	2	0
Buran Pass	2	0	1	6
Shatul Pass	2	0	1	6

VII.—United Provinces.

(*a*) *Almora.*—The following tables give the amount of falls and accumulations at the end of each month.

Actuals.

Locality.	June.		July.	
	Ft.	In.	Ft.	In.
Malla Danpur	1	3	0	6
Malla Darma	5	6	5	0
Biyans	3	6	7	6
Malla Johar	..		9	0

Accumulations.

Locality.	At the end of			
	June.		July.	
	Ft.	In.	Ft.	In.
Nuwe Pass	12	0	7	0
Lepu Pass	3	0	6	0
Lampia	4	6	8	6
Pindari Pass	1	3	0	6
Kafini Pass	1	3	0	6

Accumulations—*contd.*

Locality.	At the end of			
	June.		July.	
	Ft.	In.	Ft.	In.
Puwalidwar Pass	1	3	0	6
Nandakote Pass	1	3	0	6
Kantila Pass	1	3	0	6
Milain Pass	Not available.		1	6
Bagdwar Pass	Do.		1	0

The falls and accumulations were above normal.

(*b*) *Garhwal.*—In June snow fell twice about five inches deep on the top of the high mountains and about two inches in the passes, which melted soon after the falls. The accumulations on the neighbouring peaks are two to three feet deep.

VIII.—Assam.

No reports have been received.

AUGUST AND SEPTEMBER.

I.—Persia.

No reports have been received.

II.—Afghanistan.

No falls were reported.

III.—Baluchistan.

No falls were reported.

IV.—North-West Frontier Province.

No falls were reported.

V.—Kashmir.

(*a*) *Skardu.*—No falls occurred at the station during the period under report; but very light falls were observed on the high peaks of the adjacent mountains on the 24th and 25th September.

(*b*) *Dras.*—No falls were experienced at the station. In September slight snowfall was recorded on the high peaks. Throughout the period the higher peaks were snow-capped.

(*c*) *Srinagar.*—No falls were observed in August. In September light falls were observed on the surrounding high mountains.

(*d*) *Gulmarg.*—No falls occurred during August but a few hailstorms are reported. In September several fresh light falls were observed on the Affarwat range. Frequent hailstorms are reported from the station.

(e) *Kargil.*—There was no snowfall during the period. The depth of accumulations on the higher passes of the district at the end of August was 4 inches while it was 3 inches at the end of the period.

VI.—Punjab.

No reports have been received.

VII.—United Provinces.

(a) *Almora.*—The actual amounts of snow are given in the following table:—

Locality.	August.		September.	
	Ft.	In.	Ft.	In.
Malla Darma	8	3	14	6
Biyans	7	9	23	0
Malla Danpur	0	6	0	6

The falls for the period were above normal.

The accumulations at the end of each month are set forth in the following table:—

Locality.	Accumulations at the end of			
	August.		September.	
	Ft.	In.	Ft.	In.
Nuwe Pass	9	0	13	0
Lampia Pass	9	0	11	0
Lepu Pass	6	0	9	0
Pindari Pass	0	6	0	6
Kafini Pass	0	6	0	6
Puwalidwar Pass	0	6	0	6
Nandakote Pass	0	6	0	6

The accumulations were above normal.

VIII.—Assam.

No falls were reported.

The retreating monsoon period, October to December.

I.—Persia.

Information is not available.

II.—Afghanistan.

Kabul.—A fall of snow occurred in Kabul on October 28th and 29th, the equivalent amount of water being 1″·58. This fall was followed by another only on the 7th December which gave precipitation of 0″·32 of water. This fall was particularly heavy in the Ghazni Mukur area of Afghanistan. The Paghman range and the Hindu Kush appeared to have more snow than this time last year; the snow level appeared rather lower, though reports stated that the passes were still open.

III.—Baluchistan.

Quetta.—The first snowfall occurred on the 9th December; though it was very light, it affected a wide area including the Khojak Pass, Takatu, Chittan, Murdan, Zarghun, Kand (at the head of the Zhob valley), Shinghar, and Takht-i-Suleiman. On the Khojak Pass a light sheet of snow lay by the middle of December on all the northern slopes up to an elevation of 6,500 ft. Slight accumulations are noticed on Khalifat and on the hills round Ziarat.

IV.—North-West Frontier Province.

(a) *Hazara.*—The falls were late to commence and were much below normal.

(b) *Dir, Swat and Chitral.*—The following are the particulars about the falls in Chitral:—

Month.	No. of days of fall.	Total amount.	
		Ft.	In.
October	5	4	8
November	2	2	0
December	3	2	8

These are but normal. The depth of snow on the Lowarai Pass by the end of the season varied from 5 ft. to 10 ft. On the Drosh side of the pass the accumulations extended to about three miles below Ziarat Post. For four days in the middle of the month the Pass was closed owing to a snowstorm. The Hindu Raj range and the hills in the Mastuj area were covered with snow above elevations of 8,000 ft. M. S. L.

(c) *Kurram.*—Slight falls are reported on the surrounding hills on six days in October, and four days in November. The November falls are reported to be heavy. The occurrence of snowfall is said to be earlier and more than in previous years.

(d) *Kohat.*—On Fort Lockhart there were falls only in December. The total amount measured 1″ of equivalent rain.

(e) *South Waziristan.*—Light snowfalls are reported to have fallen on the Marwatai range and Janimola mountains on the 11th December. In Razmak the 9th of December witnessed falls on the Shindar, Spinkamar and Preghal mountains.

V.—Kashmir.

(a) *Skardu.*—No falls occurred in October while in November on eighteen days falls were observed on the adjacent mountains. In December the 7th and the 8th witnessed falls throughout the Skardu Tahsil, amounting to 0″·18 of equivalent rain. The accumulations on the mountain peaks at the ends of October, November and December were 8, 2½ and 2 feet respectively.

(b) *Dras.*—One snowstorm and frequent light falls on the surrounding peaks are recorded for October; snowstorms numbered seven in November and four in December. Accumulations on the well-known peaks like Zogilla were 3 inches deep at the end of October, two feet at the end of November and three feet at the end of December. Falls and accumulations in October and December were below normal while those for November were normal.

(c) *Srinagar.*—Light falls were observed on the mountain peaks throughout the period under report.

(d) *Gulmarg.*—No falls were observed in October. Reports for the rest of the period have not been received.

(e) *Kargil.*—Reports none in October, three in November and two in December. The total amounts were 0″·24 and 0″·07 respectively for these two months. Depth of accumulations on the well-known higher passes of the district rose from 3 in. at the end of October to 1 ft. at the end of the period. The falls were in defect throughout the period.

(f) *Sonamarg.*—Reports indicate occasional light falls which were below normal.

(g) *Gurez.*—Falls are reported on the 14th October, 9th to 12th and 21st to 24th of November and 5th to 7th December.

(h) *Leh.*—Light occasional falls are reported on heights above 13,000 ft.

VI.—Punjab.

(a) *Kulu (Kangra District).*—On the high peaks there was a little snowfall. There were two to three feet of accumulations on the Rohtang and Hampta Passes at the end of the period. The snowline was above 10,000 ft. M. S. L.

(b) *Kilba Hills (Simla District).*—No regular snowfall was recorded during the period except for a light fall of half an inch which occurred on the high peaks during December.

VII.—United Provinces.

(a) *Almora.*—The total falls for each of the months of the period are tabulated below: —

Locality.	October.		November.		December.	
	Ft.	In.	Ft.	In.	Ft.	In.
Malla Darma . .	7	6	1	9	3	0
Malla Danpur . .	1	0	..		1	0
Biyans . . .	12	3	3	9	4	0
Malla Johar . .	..		..		3	8
Chaudash . . .	..		..		2	6

Snowfall was nearly normal in October and November but below normal in December.

The following is a table of accumulations at the end of each month during the period :—

Locality.	October.		November.		December.	
	Ft.	In.	Ft.	In.	Ft.	In.
Nuwe . . .	17	0	11	0	11	0
Lampia . . .	16	0	8	0	9	0
Lepu	12	0	6	0	7	0
Pindari . . .	1	0	..		1	0
Kafini . . .	1	0	..		1	0
Kantila . . .	..		..		1	0
Puwalidwar . .	1	0	..		1	0
Milain . . .	..		..		3	6
Bagdwar . . .	..		..		1	6
Bikarum . . .	..		..		9	0
Nandakote . .	1	0	..		..	

VIII.—Assam.

(a) *Kamrup.*—The first snowfall was rather later than usual and at the beginning of the season not heavy. There were frequent falls during December, none particularly heavy but aggregating to rather above the average.

(b) *Sadiya Frontier Tract.*—Snow was first seen on the 5th November on the Mishmi hills on peaks of about 11,000 ft. The severest snowfall during the period took place during the last week of December. The falls were normal during the period under report.

(c) *Baliapara Frontier Tract.*—It is reported that exceptionally heavy falls of snow occurred during November and December. The falls are reported to be later and heavier than usual.

Summary.

Cold weather period, January and February.—Afghanistan, Baluchistan and the North-West Frontier Province had an excess of snowfall. That in the United Provinces in February was also an excess. Normal conditions prevailed in the Punjab and in the United Provinces for January. The Baliapara Frontier tract in Assam was subjected to more severe falls than ordinary, while the rest of Assam had normal falls. Defect was recorded in Kashmir. Accumulations at the end of the period were generally normal on the hills in the North-West Frontier Province, Kashmir and the Punjab. In the hills in the United Provinces the accumulations at the end of January were in defect while they were in excess at the end of February.

Hot weather period, March to May.—Falls and accumulations were above normal in Afghanistan. Even at the end of May the accumulations on the Paghman range and on the Hindu Kush were reported to be above normal. Normal falls were reported from all the other provinces except from Kashmir which has recorded a defect. Accumulations on the high mountains were below normal in the North-West Frontier Province and Kashmir while they were normal in the Punjab, the United Provinces and Assam.

The Southwest monsoon period, June and July.—Normal falls and accumulations were reported from the North-West Frontier Province, Kashmir and the Punjab. The United Provinces experienced a slight excess.

The Southwest monsoon period, August and September.—Light falls occurred on the high mountains of Kashmir, with hailstorms in Gulmarg. Both the falls and accumulations in the province were normal. The United Provinces had an excess of falls and accumulations.

The retreating monsoon period, October to December.—The first fall of the season occurred on the 29th October in Afghanistan and on the 9th December in Baluchistan. The falls were above normal in Afghanistan and Assam, normal in Baluchistan and the North-West Frontier Province, and in defect in the remaining provinces. Accumulations were slightly above normal in the ranges of Afghanistan, normal in Kashmir and below normal in all the other provinces.

S. R. SAVUR,
Meteorologist,
Poona.

MGIPC—M—VIII-3-13—15-7-32—290.

N. O.—W. R.-31/C.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW

ANNUAL SUMMARY FOR 1931

PART C

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DELHI: MANAGER OF PUBLICATIONS
1933

Price Re. 1 or 1s. 9d.

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ANNUAL SUMMARY, 1931.

PART C.

STORMS AND DEPRESSIONS.

DEPRESSIONS AND CYCLONIC STORMS.

During the year, 5 storms and 9 depressions formed in the Bay of Bengal, 1 depression in the Arabian Sea and 1 depression over the north Deccan. The dates on which the storms occurred and the greatest barometric depths observed are summarised in the table below. The detailed descriptions of these storms and depressions are, as usual, followed by a list of western disturbances of the year, of the more important local storms and of the localities in which winds of force 9 or more were experienced by ships in the Indian Seas.

TABLE.

Serial No.	Locality.	Month.	Date.	Greatest observed barometric depths.
1	Bay of Bengal .	May . .	14—16	..
5	Ditto . .	August .	19—21	0·40″
12	Ditto . .	October .	7—14	0·40″
14	Ditto . .	October .	29—1st Nov.	..
17	Ditto . .	December .	22—24	0·34″

1. *Storm of May 14th to 16th, 1931.*—The first signs of a temporary advance of the monsoon in the south of the Bay became apparent on the afternoon of the 10th May when a south westerly wind was established over Port Blair up to a height of about 3 Km. The strength of the southwesterly current was as much as 33 mi/hr. at 1·5 Km. level. During the next two days the advance of the monsoon was maintained. The following ships' observations show that the first signs of unsettled conditions in the central Bay appeared on the morning of the 13th.

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
13th May.	"City of Shanghai."	8	17° 09′	86° 14′	NE	4	Sea moderate.
	"Subadar" .	7	14° 30′	84° 30′	NNE	2	Sea slight: slight swell from NE.
	"Antres" .	11½	11°	84°	NW	7	Heavy rain.
	"Begum" .	8	9° 14′	86° 04′	NW	4	Confused sea and swell; overcast with Cu and CuNi; rain; 10 a.m. wind backed to WSW; weather cleared.
	"Jalavijaya"	8	13° 31′	91° 22′	ESE	4	Moderate wind and sea.
	"Kohinoor" .	8	17° 26′	92° 10′	SE	3	Sea slight with moderate swell.

A noteworthy feature on the morning of the 14th May was the large pressure rise in the southwest of the Bay over the region extending from Ceylon to the Coromandel coast. The following ships' observations shew that a depression was forming with the central region in the neighbourhood of Lat. 15°N, Long. 88°E.

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
14th May.	"Subadar" .	7	17° 30′	86° 30′	N	2	Sea slight with moderate southeasterly swell.
	"Masimpur" .	7	14° 30′	88° 30′	S	5	00·00 to 09·00 continuous heavy rain; 10·30 wind NE, 2; 13·30 wind N×W, 7; Rain squalls. 1,600 to 2,200 continuous heavy rain, squally. 22·00 wind dropped. Sky clearing to NW.
		8	14° 38′	88° 40′	SE	3	
		19	14° 30′	86° 30′	WNW	7	
		20	14° 06′	86° 12′	NW	7	
	"Ekma" .	7	14° 30′	88° 30′	E	5	Sea moderate with moderate swell from SE; squally.
		14	14° 30′	89° 30′	SSE	5	Sea moderate with heavy swell from south.

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
14th May.	"Ekma" .	18	14° 30′	90° 30′	SSE	7	Sea rough with moderate swell from south.
	"Havildar" .	19	18° 30′	86° 30′	NE	2	Sea slight with moderate swell from SE.
		20	18° 23′	86° 36′	NE	2	Overcast.
	"Aungban"	18	18° 30′	91° 30′	SE	3	Sea moderate with heavy southerly swell.

It is interesting to note that the directions of swells reported by *S. S.* '*Subadar*' and *S. S.* '*Havildar*' are in opposition to the wind directions reported by these ships.

A well-marked negative pressure departure was noticeable in the sea area for the first time on the morning of the 15th and a diffused low pressure area appeared in the north Bay. The following ships' observations show that the central region of this low pressure area was possibly in the neighbourhood of Lat. 16°N, Long. 88°E.

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
15th May.	"Masimpur"	8	13° 41′	83° 40′	SW	5	Sea rough with heavy confused swell.
	"Hatkhola" .	8	14° 04′	92° 44′	S	5	Sea rough with heavy swell from south; frequent squalls.
	"Warora" .	8	12° 13′	90° 13′	SW	6	Sea rough with heavy swell.
	"Ekma" .	7	15° 30′	93° 30′	S	5	Sea moderate with heavy SW swell.
	"Aungban" .	8	19° 47′	89° 18′	SE	2	Sea slight with moderate swell from SE.
	"Havildar" .	8	20° 13′	87° 38′	ESE	2-3	Overcast with very ugly sky to SSE.
	"Warora" .	15	11° 30′	89° 30′	SW	7	Sea rough with swell from SW; squally.
	"Yorkshire"	15½	13°	92°	WSW	6	Squally.
	"Hatkhola" .	19	12° 30′	91° 30′	W	7	Sea very rough.

By the evening of the 15th pressure fell rapidly in the north Bay and by the morning of the 16th a storm formed with centre at 8 hrs. near Lat. 18°N, Long. 92°E. The storm moved in a northeasterly direction and by the evening of the 16th it crossed the Arakan coast about 60 miles south of Kyaukpyu. Thereafter it rapidly weakened and became unimportant.

The storm caused moderate to heavy rainfall in the neighbourhood of Kyaukpyu and Akyab. The records of provincial raingauges in Burma shew that locally heavy rainfall first occurred in the Arakan, Pegu and Irrawady divisions on the 14th, 15th and 16th. On the 17th the heavy rainfall band shifted to the Meiktila and Sagaing divisions. The individual falls in 24 hours however did not exceed 5 inches.

2. *Depression of June 30th to July 2nd, 1931.*—On the morning of the 26th June an appreciable fall of pressure was noticed on the east coast of the Peninsula and an area of small negative pressure departure appeared over the south-west Bay. The most characteristic change in the upper wind was at Vizagapatam, where from the surface up to a height of at least 3 Km. a light to moderate northeasterly wind prevailed and strengthened considerably on the morning of the 27th. On this day the northeasterly surface winds at Cuttack, Gopalpur, Calingapatam and Vizagapatam suggested the establishment of a northeasterly current over the whole of the Orissa-Ganjam coast. During the next 24 hours the surface observations did not indicate any further development of the weather situation. Pressure had fallen slightly over a wide region, apparently over the greater part of the Bay, and on the morning of the 28th the area of negative pressure departure moved over to the Coromandel coast. On that morning there existed a shallow 'low' off the Orissa-Ganjam coast with strong monsoon to the south and southeast of it. The following extracts from ships' logs showed the existence of a feeble cyclonic circulation off that coast :—

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
June 28th	"Mulbera" .	8	15° 46′	82° 57′	WNW	4	Moderate sea with moderate swell; sky partly cloudy.
	"Recorder"	8	17° 02′	86° 30′	SSW	5	Sea rough; cloudy, passing showers.
	"Binfield" .	8	18° 25′	87° 17′	S	4	Sea slight with moderate swell; sky partly cloudy.
	"Coconada" .	8	18° 51′	84° 40′	NE	3	Sea slight; sky partly clouded; lightning.

On this date also the northeasterly current over the Orissa-Ganjam coast persisted, as is indicated by the northeasterly surface winds at Chandbali, Cuttack, Gopalpur, Calingapatam and Vizagapatam. The upper winds at Vizagapatam maintained their northeasterly direction up to a height of at least 1 Km, (the level up to which observations were available), where the force of the wind was as much as 40 miles per hour. On the morning of the 29th there was a rise of pressure over the Bay south of Lat. 16°N and a fall of pressure to the north of it; the net result of this being that the area of negative pressure departure shifted to the central and north Bay. This view is also supported by the fact that the surface winds at Vizagapatam and Calingapatam became light south-westerly and the upper wind at Vizagapatam for the first time turned also to south-west and was of force 6 to 7 up to a height of 1·5 Km. up to which observations were available. That the weather was unsettled in the north Bay became apparent from the following ships' observations and the observations at the Sandheads.

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
June 29th	"Ekma"	18	17½°	87½°	W	7	Sea rough, conspicuous SW swell; squally weather.
	"Talren"	17	19½°	89½°	SW	7	Sea rough with conspicuous SW swell; squally.
	"Nowshera"	18	20½°	88½°	SSW	5	Moderate sea with moderate southerly swell.
	Sandheads (coast station).	17	21°	88°	E	1	Sea calm.

The upper winds on the afternoon of this day showed a well-marked 'low' extending from the head of the Bay to Bihar.

On the morning of the 30th there was a further marked fall of pressure over the region extending from Surma valley to the northwest angle of the Bay and the area of concentrated pressure departure arranged round the Sandheads. Pressure continued to fall over the head of the Bay, where by the early morning of the 1st July a shallow depression formed with its central region near the Sandheads. The depression did not intensify further and moved in a northerly direction and was over south Bengal by 17 hours of the 1st. By the morning of the 2nd the depression weakened and lay as a trough of low pressure extending from the Sandheads to Hazaribagh. Thereafter it moved away northwestwards through Chota Nagpur.

The depression caused widespread and heavy rain near its track. Some of the notable falls recorded are given below:—

On the 1st July, Taldangra recorded 8″ of rain, Barjora 4″, Chatna 4″, Ramnagar 3″ and Palandu 3″; on the 2nd, Saugor Island 6″, Alipore 3″, Asansol 7″, Mankar 5″, Bankura 6″, Maliara 9″, Mejia 5″, Palasdanga 5″, Manatu 4″ and Chandwa 4″; and on the 3rd, Chainpur 4″, Mahuadanr 4″ and Bhaunathpur 5″.

3. *Depression, 6th and 7th August 1931.*—On the evening of the 4th August a fairly steep pressure-gradient over the whole of the Bay of Bengal, together with a moderate fall of pressure in the North and Central Bay, was noticed for the first time. Next morning the pressure further decreased in the North and Central Bay and a concentrated area of negative pressure departure appeared with its centre about Lat. 18°N, Long. 90°E.

The monsoon trough of low pressure extended well into the Bay as far east as longitude 92°E on the morning of the 5th. The observations of upper winds at Calcutta, Patna, Allahabad and Sambalpur on that evening indicated that at least up to 1 Km. height a cyclonic circulation existed from the head of the Bay to the United Provinces. By the morning of the 6th, a depression formed in the northwest angle of the Bay with centre near Lat. 19½°N, Long. 88½°E. Without much further intensification it moved in a northwesterly direction and, by the early morning of the 7th it crossed the coast between Balasore and Saugor Island. Thereafter it moved in a northwesterly direction and began to weaken. At 8 hours of that day it lay as a shallow low pressure area over southwest Bengal and adjoining parts of Orissa and Chota Nagpur.

Within the next 24 hours it weakened further and moving northwestwards it finally merged into the seasonal trough of low pressure over the Gangetic plain. It gave fairly widespread light to moderate rainfall to southwest Bengal, Orissa and Chota Nagpur.

The depression strengthened the activity of the southwest monsoon in the Andaman Sea and along the Tennasserim coast.

4. *Deep Depression, 14th to 16th August 1931.*—On the morning of the 12th an extensive fall of pressure was noticed along the Burma coast and over the Bay accompanied with squally weather and rain off the Burma coast. During the next 24 hours, the pressure continued to fall further over Burma and the north and central Bay, and a concentrated negative pressure departure area appeared over the region extending from the North Andaman Sea to the head of the Bay; and a shallow low also extending from the head Bay to Chota Nagpur as indicated in the isobaric chart.

On the 13th evening upper wind observations from Akyab, Chittagong, Dacca, Calcutta and Sambalpur showed the existence of a cyclonic circulation upto 3 Km. height, over the head of the Bay and deltaic Bengal.

There was a further fall of pressure at the head of the Bay, and a depression formed there by the 14th morning with its centre about 70 miles southeast of the Sandheads. During the course of next 24 hours it intensified markedly with very little movement and became a deep depression. On the morning of the 15th it lay centred about 50 miles southeast of the Sandheads. Negative pressure departure of the order of 0·3″ was noticed near its centre. The pilot balloon observations on the 15th morning showed a cyclonic circulation at the head of the Bay up to at least 2 Km. height (data higher up were not available). The deep depression then moved slowly in a northwesterly direction without much further intensification and was centred at 17 hours about 100 miles south of Calcutta. It crossed the coast between Saugor Island and Balasore by the midnight of 15th, and then weakened and lay as a shallow 'low' over southwest Bengal on the 16th morning. Thereafter it moved away northwestwards and filled up, but induced another depression over west Central India and East Rajputana on the 17th, which in turn merged into the seasonal 'low' over northwest India on the next day.

It caused widespread and locally heavy rain in Orissa, Chota Nagpur, the Central Provinces and West central India and East Rajputana.

5. *Storm, 19th to 21st August 1931.*—With the passage of a low pressure wave from the east through Burma, conditions became unsettled at the head of the Bay after the 17th and the monsoon began to strengthen below Lat. 20°N. In the course of the next day the unsettled conditions developed into a depression which was centred at 8 hours on the 19th near lat. 21°N and long. 89°E, approximately 80 miles to the southeast of Saugor Island. The upper air observations at Calcutta, Dacca and Chittagong also showed a cyclonic

circulation at the head of the Bay up to about 2 Km. on the 19th morning. The following report from Saugor Island at 13 hours of the 19th was interesting.

"Weather experienced since 7·38 hours I. S. T.:—Barometer suddenly rose..... from observation to 8 hours steady, from 8 to 10 hours falling slowly, present reading corrected 29·936". Thunderstorm at 8 hours, intermittent moderate rain from 11 hours, winds slowly backing from north at 8 hours to present direction westnorthwest force 4, sky more or less thundery."

The depression moved very slowly in a northwesterly direction, and by the early morning of the 20th it had intensified into a storm of small diameter. At 8 hours, it lay with its centre midway between Saugor Island and the Sandheads.

The surface wind directions and forces at the Sandheads on 19th and 20th are given below :—

Day.	Hour.	Dir.	Force.	Remarks.
19th	2	WSW	6	Sea rough; Heavy squalls; Continued light rain.
	8	WSW	8	Squally; Sea very rough.
	14	W	6	Sea very rough; Rain.
	17	W	6	Sea very rough.
	19	W	6	Ditto.
	23	W	7	Squally, drizzling frequent vigorous squall; sea very rough.
20th	2	WSW	7	Sea very rough; continuous slight rain.
	6	WSW	8	Sea very rough, unusual gustiness; intermittent moderate rain since 3 hours; occasional heavy precipitation and occasional squall.
20th	8	WSW	8	Squally, sea very rough.
	11	WSW	8	Sea very rough.
	14	WSW	8	Sea very high, intermittent slight drizzle.
	17	SW	6	Sea very rough.
	19	SSW	5	Sea rough.
	23	SSW	5	Sea rough, intermittent slight drizzle.

The above observations indicate the conditions near the core of the storm while it passed by the station. It will be seen from the above data as well as from the following ship's observations that the storm had a core of violent winds.

Date.	Hour.	Steamer.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
20th	6·30	"City of Sydney."	19·00	87·40	WSW	8	Squally, cont. heavy rain, rough high sea.
	6·30	"City of Lyons."	19·11	90·00	SW/S	..	Squalls, drizzle, confused sea.
	7	"Ellenga"	20·30	89·30	SW	9	Squally, sea rough.
	8	"City of Sydney."	19·30	87·35	W	8	Rain, squalls, sea rough swell SW, very heavy.
	15	Do.	20·38	88·00	WSW	7	Sea rough.
	15·30	"City of Lyons."	20·14	89·12	SW	6	Sea rough heavy.

Rain and thundersqualls were reported from most of the coastal stations and ships in the north Bay on the 20th morning and defect of pressure departure near the centre of the storm was of the order of 0·40".

The storm then moved westwards and crossed the Orissa-Ganjam coast near Balasore on the night of the 20th. Thereafter it weakened into a depression which lay over Chota Nagpur on the 21st morning, and caused locally very heavy rainfall in Orissa. It then moved further westwards across the Central Provinces to southeast Rajputana, where it finally merged into the seasonal low over northwest India on the 25th morning. The following table gives the particularly heavy falls of 5" and above, which occurred in Orissa and Chota Nagpur during the passage of this storm.

District.	Stations.	Rainfall, 20th.	Rainfall, 21st.
		"	"
Cuttack	Jagatsingpur	6·30	...
	Cuttack	6·10	..
	Jajpur	7·41	..
	Salepur	7·28	..
	Raj Kanika	..	5·26
	Barachana	5·15	5·15
Balasore	Akhayapada	6·10	..
	Bhadrakh	5·45	5·26
	Soro	6·05	..
	Eram	..	5·24
Angul	Angul	6·94	10·13
	Chhendipara	5·30	..
	Purnakot	..	8·95
	Balandapara	..	7·54
	Jarpara	..	5·81
Feudatory States	Bolangir	..	5·18
	Sonpur	..	7·32
	Rampur	..	9·22
	Deogarh	..	6·45
	Keonjhar	..	7·10
	Anandapur	5·50	..
	Athmallik	..	7·17
	Hindol	..	6·28
	Band	..	6·75
	Athgarh	5·68	..
	Champua	..	5·33
	Rairangpur	6·28	..
Puri	Kanas	13·0	..
Sambalpur	Sambalpur	..	9·60
	Balgarh	..	7·80
	Padampur	..	5·55
	Jharsuguda	..	6·58
	Bijepur	..	8·90

6. *"Shallow Low," 26th and 27th August, 1931.*—With the passage of a low pressure wave from the east through Burma into the Bay, an area of shallow negative departure appeared off Arakan coast, and conditions became unsettled in the north and central Bay.

By the evening of the 25th the pressure fell along the Orissa-Ganjam and Bengal coasts, and the area of negative pressure departure slightly moved in a northwesterly direction towards the head of the Bay. A shallow low appeared on the 26th morning extending from the northwest angle Bay to Chota Nagpur.

It gradually moved northwestwards and passed inland on the 27th, giving locally heavy rainfall to Central Provinces as shown in the table below :—

District.	Station.	Rainfall, 26th.	Rainfall, 27th.
		"	"
Raipur	Raipur	9·33	..
	Baloda Bazar	..	6·92
	Gariabund	..	5·50
	Arang	7·15	..
	Saraipali	6·15	..
	Mahasamund	5·17	..
	Nawapara	7·12	..
	Kurud	6·90	..
	Kukerdehi	..	7·30
	Lakoli	6·40	..
	Kanki	..	7·15
	Ganode	7·82	..
Bilaspur	Barpali	5·15	..
Feudatory States	Sarangarh	5·10	..
	Surguja (Ambikapur)	..	5·67
Jubbulpore	Jubbulpore	..	5·00
Mandla	Narayanganj	..	5·62
Narsingpur	Chhindwara	..	5·28
Chanda	Garchiroli	..	5·04

7. *Depression, 30th August to 1st September 1931.*—On the morning of the 28th a wave of low pressure was found affecting eastern Burma. The wave gradually extended westwards and on the 29th morning an area of negative pressure departure was seen lying over north and central Bay. On the isobaric chart the monsoon trough of low pressure extended as far over the Bay as Lat. 20°N, Long. 92°E. Pressure fell still further and on the 29th evening the pilot balloon data from coastal stations indicated the existence of a cyclonic circulation over north Bay up to at least 2·5 Km.

By the early morning of 30th, these unsettled conditions intensified into a shallow depression with centre within a degree of Lat. 19°N, Long. 88°E. It gradually intensified further and remained practically stationary during the next 36 hours. It then began to move in a northwesterly direction and early on the 1st morning it lay centred near Lat. 20°N, Long. 87°E. It crossed the Orissa coast by noon the same day between Puri and Chandbali and began to weaken. On the 2nd morning it lay as a shallow low extending from the northwest angle of the Bay to Chota Nagpur. It persisted as a low pressure area till the 4th morning and bacame unimportant thereafter. It caused a strengthening of the monsoon from Upper Burma to the United Provinces.

Some of the notable falls of 5" and above caused by the depression are given in the following table :—

District.	Station.	Amount of rainfall.	
		30th.	31st.
		"	"
Mandla	Mandla	5·19	..
Chanda	Armori	6·10	..
	Garchiroli	5·86	..
Bhandara	Gondia	8·25	
	Khyrbund	..	14·15
	Pangree	..	7·50
	Gomdho	..	8·00
Balaghat	Balaghat	..	7·81
	Waraseoni	..	9·86
	Dongarbori	..	5·56
	Kamptee	..	5·07
	Kattangjhiri	..	5·30
	Pathri	..	7·50
	Dongargaon	..	6·05

8. *Shallow depression, 17th to 19th September, 1931.*—On the morning of 13th a fall of pressure appeared along and off the Coromandel and Circars coasts and the monsoon was found to be strengthening from Ceylon to Tenasserim. During the course of the next 24 hours, conditions became markedly unsettled in the central Bay, and the upper wind observations showed that a cyclonic circulation was establishing itself off the Circars Coast at least up to 2 Km. height. The following ships' observations on the 14th morning are interesting :—

Date.	Ship.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
14th Sept.	"Cape"	7	12° 00′	84° 10′	WNW	7	Strong WNW squalls heavy rain, sea moderate, past weather overcast with barometer falling slowly.
	"Shahjehan"	7	11° 30′	84° 30′	SW	5	Sea moderate, moderate swell from SW.
	"Erinpura"	8	13° 00′	81° 05′	W	3	Overcast, squally, rain, sea smooth, slight swell from SW.

The unsettled conditions persisted in the central Bay for the next two days without any further intensification. By the evening of the 16th, however, pressure fell markedly over the Bay south of Lat. 16°; the cyclonic circulation in the upper air became well-marked up to 3 Km.

By the 17th morning, the unsettled conditions concentrated into a shallow depression with central regions about Lat. 15°N, Long. 88°E. Without further movement or intensification it persisted off the Circars Coast for the next 24 hours and then passed inland on the 19th as a wave of low pressure across the north Madras coast. It reached the Central Provinces by the 22nd, and thereafter became unimportant.

As a result of this depression the monsoon revived in the central parts of the country and was strong in the Peninsula and central India between the 16th and 22nd.

9. *Depression, 22nd to 26th September, 1931.*—Signs of a strengthening of the monsoon in the Bay south of Lat.16°N were noticeable on the 21st morning and due to a fall in pressure in the central Bay there lay a well marked trough of low pressure extending from the Coromandel Circars coast to Tenasserim on that morning. Upper winds at Port Blair and at coastal pilot balloon stations also indicated that a cyclonic circulation was becoming established over the central Bay at least up to 2 Km.

By the 22nd morning a shallow depression had formed with central region within a degree of Lat. 18°N, Long. 88°E. But for some minor oscillations of the central region and slight intensification the depression remained practically stationary for the next 36 hours. Thereafter it began to move westwards and on the 24th morning lay off the Orissa-Ganjam coast within a degree of Lat. 18°N and Long. 86°E. The shallow low moved further westwards and lay with centre about 100 miles to the east of Vizagapatam on the 25th morning. After crossing the coast in the course of that day the depression moved northwestwards and lay over the southeast central Provinces on the next morning. Moving further in a northwesterly direction, it persisted over the west Central Provinces till the 28th and then filled up. This depression was responsible for the maintenance of a strong monsoon in Hyderabad and the central parts of the country from the 23rd to 27th, for a strengthening of the monsoon in southwest Bengal, Orissa and Chota Nagpur on the 24th, 25th and 26th and for its revival in the United Provinces and in and near the Punjab hills between the 23rd and 28th.

10. *Shallow land depression, 30th September to 14th October.*—The monsoon was strong in the south Bay during the second fortnight in September. Conditions became unsettled in the Bay off the Circars coast on the 29th; the unsettled conditions passed inland and a low pressure area appeared over north Hyderabad on the 30th. It persisted there till the 4th, when it became accentuated into a shallow depression with the passage inland of a low pressure wave in connection with a depression from the Bay. The depression moved very slowly northwestwards and lay over Kathiawar on the 11th morning, widespread and locally very heavy rainfall occurring along and near its track. The progress of the depression was checked because of the monsoon current being diverted eastwards by another depression which had formed in the central Bay by the 11th. The depression under review persisted over Kathiawar till the 15th and then became unimportant, the rainfall after the 11th being confined only to the Konkan coast and portions of east Gujarat.

11. *Depression of 4th to 5th October, 1931.*—Pressures fell in the north Bay after the 1st and the observations from the Sandheads and the following ships on the 3rd morning indicated that conditions were becoming markedly unsettled in the north Bay of Bengal off Orissa-Ganjam coast.

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
3rd Oct.	"Arankola"	3	19·30	90·30	SE	2	Rain.
	Do.	7	19·30	89·30	E	2	Do.
	"Takliwa"	7	20·30	90·30	S	2	Do.
	"Tapti"	8	20·06	88·12	NW	2	Over cast Rain.
	"City of York"	8	18·52	86·13	NW	2	Cloudy, Rain.
	Sandheads (coast station).	8	..	..	NE	6	Rain squall.

The upper air observations (from Port Blair, Rangoon, Akyab and Calcutta) on the morning of the 3rd also indicated that a cyclonic circulation was being established over the region extending from the north Andaman Sea to central Bay, up to a height of 2 Km.

Pressure continued to fall over the north and central Bay and along the Orissa-Ganjam and Circars coasts during the next 24 hours, and a more or less diffused depression was formed on the 4th morning with the centre within a degree latitude 18½°N, longitude 88½°E.

The depression remained shallow and while moving in a northwesterly direction towards the Sandheads became small in extent and at 15 hours the same day it lay about 50 miles northwest of the Sandheads. The following observations from Saugor Island indicated a regular veering of wind, as the depression centre approached Balasore.

Date.	Station.	Hour.	Wind.		Remarks.
			Dir.	Force.	
4th Oct.	Saugor Island	2	NNE	2	Cont. moderate rain.
		8	NE	6	Squally, drizzling.
		11	ENE	5	Rain, squall.
		15	E	5	Weather aspect very threatening, excessively gloomy, wind freshening up rapidly, squalls increasing in intensity, squally.
		17	ESE	6	Squally, drizzling.
		19	ESE	6	Rain, squally, occasionally vigorous, squalls.
		23	SE	3	Rain, squall.

The pressure tube anemometer at Saugor Island showed that the wind attained its highest speed of 43 mi/hour at about 17 hours on the 4th.

The important feature to note in this connection was the existence of a marked negative pressure departure over the north Deccan which presumably was responsible for the main-

tenance of a southerly current over the peninsula as far north as Vizagapatam. It is interesting to note that winds at 0·5 Km. at this station were southerly even on the morning of the 4th.

It crossed the coast between Balasore and Saugor Island early on the 5th morning, and accentuated the low pressure area which lay over north Hyderabad on the 4th into a shallow depression. It caused fairly widespread rain over the north Madras coast and the Central Provinces, and locally heavy rainfall in southwest Bengal, and along the Orissa coast. Some of the notable falls of 5″ and above are given in the following table :—

4th	Ramnagar (Midnapore)	10·68
	Chandbali	5·65
5th	Saugor Island	5·46
	Contai	8·16
	Baliapal	5·95

12. *The Storm, 7th to 14th October, 1931.*—Weather was unsettled from the Andaman Sea to the north Bay after the 5th. The upper air chart for the 5th morning showed that there was a marked strengthening of westerly wind at Port Blair at 1 Km. height, (the height up to which observations were available), and on the 11 hours chart of the same day a marked negative pressure departure area was seen to extend from off the north Andaman Sea and Arakan coast to the Coromandel coast. Pressure fell progressively over the region and by the 6th morning the unsettled conditions became more marked over the north Andaman Sea and extended slowly northwestwards.

Without any signs of further intensification the unsettled conditions persisted in the east Central Bay for the next three days, moving slowly in a northwesterly direction. By the morning of the 10th the unsettled conditions became more marked and it was noticed on the isobaric chart that a fairly regular cyclonic circulation was establishing itself over the north and central Bay of Bengal. Pressure continued to fall, and the unsettled conditions eventually concentrated into a depression by the 11th morning centred within a degree of latitude 17°N, longitude 88°E. The following ships' observations on the same morning are interesting—

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force	
Oct. 11th	"Mahanada"	8	17·30	85·41	NNE	5	Overcast, rain, sea rough from north or east.
	"Dara"	8	15·30	85·30	W	7	Squally.
	"Erinpura"	7	14·30	87·30	W	7	Do.
	"Edavana"	7	14·30	90·30	SW	7	Do.
	"Hatarana"	7	18·30	90·30	SE	5	Do.
	"Clan McGillavany."	8	19·19	89·04	ESE	6	Cloudy.

These indicated that a fairly vigorous cyclonic circulation existed over the Bay and the depression was intensifying. The upper air observations showed that the cyclonic circulation over the north and central Bay and extended up to a height of 4 Km.

During the course of the next 24 hours the depression moved in a northwesterly direction, intensifying simultaneously. It lay centred on the 12th morning near latitude 18°N, longitude 87½°E. Rough seas, thundersqualls and rain were reported by most of the ships near about the centre of the deep depression. The following ships' observations are interesting in this connection—

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
Oct. 11th	"Ekma"	14	18·30	85·30	SE	9	Sea slight, swell heavy from north.
	Do.	18	18·30	86·30	NE	7	Cyclonic weather forming, sea moderate, swell moderate from E.
	Do.	22	18·30	86·30	NE	7	Squally, sea moderate, swell heavy from NE.
Oct. 12th	Do.	2	18·30	87·30	E	5	Weather getting better, sea moderate swell moderate from E.
	Do.	6	18·30	88·30	SSE	7	Weather getting better, sea moderate, swell moderate confused.
	Do.	10	17·30	88·30	SE	7	Sea moderate, heavy swell from SE.
	Do.	14	17·30	89·30	SSE	7	Squally, sea rough, swell conspicuous confused.
	Do.	18	17·30	90·30	SSE	7	Sea rough, swell conspicuous confused.
	Do.	22	17·30	90·30	SSE	7	Squally, sea moderate, swell heavy from S.
Oct. 13th	Do.	2	16·30	91·30	S	5	Sea moderate, swell heavy from SW.
	Do.	6	16·30	92·30	SSE	5	Sea moderate, swell moderate from SW.
	Do.	10	16·30	93·30	SE	5	Ordinary monsoon weather, sea slight, swell moderate from SW.
	Do.	14	15·30	93·30	SSW	5	Sea slight, swell moderate from SW.
Oct. 11th	"Nurmahal"	18	18·30	85·30	NNE	7	Suspicious sea rough swell inconspicuous.
	Do.	22	19·30	85·30	NNE	7	Sea rough swell inconspicuous from N.

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
Oct. 12th	"Nurmahal".	2	19·30	85·30	NNE	7	Squally, sea rough swell conspicuous from N.
	Do. . .	7	19·30	86·30	NNE	7	Squally, sea moderate, swell slight.
	Do. . .	10	19·30	86·30	NNE	7	Squally, sea rough.
	Do. . .	14	19·30	86·30	ENE	5	Squally, sea moderate, swell moderate from SE.
	Do. . .	18	20·30	86·30	E	5	Suspicious sea moderate, moderate swell from SE.
	Do. . .	22	19·30	87·30	ESE	7	Squally, sea moderate, moderate swell from SE.

The depression intensified into a storm, apparently of small extent, by about noon of the 12th and kept on a westnorth-westerly course though moving slowly. On the morning of the 13th it lay off the Orissa coast about 50 miles south of Gopalpur. Pressure departure of the order of 0·40″ was reported at Calingapatam on the morning of the 13th.

The following observations from *S. S. Chilka* which roughly followed the track of the storm on the 12th and the 13th and passed very close to the centre of the storm are very interesting—

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force	
Oct. 12th	"Chilka" .	2	17·30	89·30	SSW	2	Heavy rain, sea slight, swell moderate from SW.
	Do. . .	6	17·30	88·30	SSE	5	Ordinary monsoon weather sea moderate, swell heavy from S.
	Do. . .	10	18·30	87·30	ESE	7	Suspicious weather, sea moderate, swell moderate from SE.
	Do. . .	19	18·30	86·30	ENE	7	Suspicious sea rough swell conspicuous from E.
	Do. . .	22	18·30	87·30	E	7	Suspicious, sea rough swell conspicuous from E.
Oct. 13th	Do. . .	7	19·30	84·30	NE	7	Sea rough, swell conspicuous from E.
	Do. . .	10	18·30	84·30	ESE	7	Heavy rain, sea rough, swell conspicuous confused.
	Do. . .	18	18·30	84·30	SSW	9	Squally, sea moderate, swell moderate from S.

By the afternoon of the 13th, the storm crossed coast slightly north of Calingapatam, and began to weaken. Moving in a westnorthwesterly direction, it lay as a deep depression on the 14th morning about 60 miles east of Jagdalpur. It then took up a northwesterly course and eventually broke up in the hills of the United Provinces on the 16th.

It was responsible for strong monsoon from the north Madras coast to the United Provinces between the 14th and the 16th, and for fairly widespread rain in south Bengal, Chota Nagpur and Orissa between the 11th and 14th. Very heavy rain in Vizagapatam caused considerable damage to crops, property, and railway lines and loss of many lives.

Some noteworthy falls of 5″ and above are given in the following table—

District.	Station.	13th.	14th.	15th.	16th.
		″	″	″	″
Ganjam (Plains) . .	Aska . . .	..	6·15	..	..
	Purushottapur .	..	7·24	..	..
	Chicacole . .	..	6·00	..	..
Vizagapatam (Plains) .	Parvatipur . .	..	5·75	..	..
	Palkonda . .	..	4·99	..	..
	Bobbili . . .	..	11·12	..	..
	Salur . . .	..	11·50	..	..
	Gajapalimagar .	..	20·10	..	..
	Chiprupalle . .	..	13·94	..	..
	Vizionagram . .	..	14·10	..	..
	Srimagavarapinkota	..	10·10	..	..
	Chodevaram . .	..	5·20	..	..
	Konada . . .	..	7·10	..	..
	Dimlipatam . .	..	10·24	..	..
Vizagapatam (Agency) .	Guden (Talabadi) .	..	..	5·84	..
	Guden (Lanasinghi)	5·20	..	..	..
	Rottanghi . .	..	21·50	..	..
	Koraput . .	..	7·50	..	..
	Jaypore . . .	..	6·09	5·67	..
	Padwa . . .	..	9·15	..	..
Central Provinces .	Murwara (Jubbulpore).	..	..	..	5·68
United Provinces . .	Man . . .	..	..	7·00	..
	Pachwara . .	..	..	5·60	..
	Magarvara . .	..	..	6·50	..
	Mahobu . . .	..	..	..	6·76
	Basanli . . .	..	..	..	5·50

13. *Deep Depression, 24th to 27th October, 1931.*—On the 19th morning a shallow low extended from the north Andaman Sea to the head of the Bay. During the course of the next 24 hours conditions became markedly unsettled in the north Andaman Sea, as was shown by the observations from the following ships and Diamond Island :—

Date.	Station or Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
Oct. 20th	Diamond Island	8	..	..	ENE	7	
	"S. S. Arankola"	7	15·30	95·30	E	7	Squally.
	"S. S. Chilka"	7	15·30	95·30	ESE	5	,,
	"S. S. Lyeemoon."	8	14·00	97·23	S	2	
	"S. S. Gazana"	8	12·43	90·50	WSW	1	

Without any signs of intensification the disturbed conditions in the Andaman Sea moved slowly northwestwards across the central Bay for the next 3 days, and then began to concentrate, and eventually developed into a shallow depression by the 24th afternoon with centre near latitude 17°N, longitude 85°E. The upper air observations showed the existence of a cyclonic circulation off the Circars coast upto a height of at least 1 Km. The observations from the following ships and Calingapatam on the 24th evening indicated that the depression was probably of small extent.

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
Oct. 24th	"Hindustan"	19	16·30	85·30	SW	5	Squally, sea moderate.
	"Homefield"	18	16·30	85·30	SSW	5	Getting better.
	"Ozarda"	19	18·30	85·30	E	7	Suspicious.
	"Calingapatam"	17	..	..	NNE	6	Squally, Drizzling.

During the course of the day pressure continued to fall and the area of greatest negative pressure departure which lay off the Orissa coast on the 24th, gradually concentrated and shifted towards the head of the Bay. The observations reported from the pilot balloon stations showed that the cyclonic circulation extended upto a height of at least 2 Km. over the central Bay. The depression began to move in a northeasterly direction, and gradually intensified. On the morning of the 25th, it lay with its centre within degree of latitude 18°N, longitude 87°E. The depression intensified still further and continued along its northeasterly course. On the next morning it was centred at latitude 18½°N, longitude 88½°E. The observations from *S. S. Chilka* on the 26th suggest a further intensification of the depression.

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
Oct. 26th	"Chilka"	2	17·30	89·30	SSW	5	Sea slight, swell moderate, confused.
	Do.	5	16·30	88·30	SSW	7	Suspicious, sea rough, swell inconspicuous from south.
	Do.	10	18·30	87·30	SSW	7	Squally, sea rough, swell conspicuous from south-west.
	Do.	14	18·30	87·30	NW	9	Squally, sea rough, swell conspicuous from south-east.
	Do.	22	18·30	86·30	NNE	5	Weather getting better, sea moderate, swell moderate from north.

By the evening the depression had moved in a northerly direction and was located near latitude 20°N, longitude 88½°E. Thereafter it began to weaken. On the 27th morning it lay centred near latitude 20½°N, longitude 88½°E and by the evening of the same day it filled up, and became unimportant.

It gave fairly widespread rain in the north Madras Coast, Orissa, Bengal and Assam from 24th to 27th, and in Upper Burma from 25th to 27th. It also caused a few heavy falls in east Bengal on the 27th.

14. *Storm, 29th October to 1st November, 1931.*—With the setting in of the northeast monsoon in the Bay, conditions became markedly unsettled over the south Bay on the 29th morning, and the following ships' observations indicated that a cyclonic circulation was setting up over the region between latitudes 8°N and 12°N, longitudes 82°E and 85°E.

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
Oct. 29th	"Bahadur"	8	11·20	83·35	NE	2	Overcast sky, passing showers, squalls and rain, swells of confused direction. At 8 to 10 A.M., rain squalls with wind force 7 from ENE.
	"City of Bagdad."	8	10·00	83·40	NNE	2	Overcast sky, generally cloudy and rain.
	"City of Batavia."	8	8·35	83·05	NW	4	Overcast sky, moderate swell from NW.
	"Jalatarang"	7	9·59	85·51	E/S	3	Generally cloudy, passing showers and overcast sky.
	"Cheshire"	7	10·30	88·30	ESE	5	Squally weather with moderate sea and swell from NE.
	Do.	8	11·00	88·14	ESE	5	Generally cloudy, squaly, sea rough.

During the course of the day the conditions intensified, and a depression had formed on the 30th morning with central region within a degree of latitude 10°N, longitude 84°E. The depression began to move slowly in a northwesterly direction. By the evening of the same day it had intensified considerably, and was centred near latitude 12½°N, longitude 82½°E.

Pressure continued to fall along the Coromandel coast and the deep depression moving still in a northwesterly direction, intensified further into a storm which lay on the morning of the 31st about 100 miles south of Masulipatam.

The following extract from the log of *S. S. Erinpura* on her way from Madras to Rangoon is interesting, as the ship passed close to the storm.

Date.	Steamer.	Hour.	Position.		Wind.		Weather at the time of observation.	Remarks.
			Lat. N.	Long. E.	Dir.	Force.		
Oct. 30th .	"Erinpura" .	8 P.M.	13·27	82·22	SE/S	4	Overcast sky and squalls .	Sea rough, moderate swell from SE, wind suddenly hauled to SE at 19·30.
	Ditto .	9 P.M.	13·30	82·34	SE/S	6	Ditto ditto .	Very rough sea, moderate swell of confused direction, wind and sea increasing.
	Ditto .	10 P.M.	13·32	82·48	SE/S	6	Ditto ditto .	Very rough sea, moderate swell from SE.
	Ditto .	11 P.M.	13·35	83·02	SE/S	6	Generally cloudy (more than ¾ covered).	Sea very rough, moderate to heavy swell from SE, sky clearing, swell increasing.
	Ditto .	Midnight	13·38	83·13	SE/S	6	Ditto ditto .	Sea very rough, heavy swell from SE.
Oct. 31st .	Ditto .	1 A.M.	13·40	83·26	SE/S	8	Squalls, generally cloudy and rain.	Sea very high and heavy confused swell.
	Ditto .	2 A.M.	13·43	83·39	SE/S	8	Squalls and generally cloudy .	Sea very high and heavy confused swell.
	Ditto .	3 A.M.	13·45	83·51	SE/S	7	Squalls, generally cloudy and rain.	Very rough, very high sea, heavy confused swell and squalls less frequent.
	Ditto .	4 A.M.	13·48	84·03	SE/S	7	Ditto ditto .	Very rough, very high sea, heavy confused swell, slight improvement in general conditions.
	Ditto .	5 A.M.	13·50	84·15	SE/S	7	Generally cloudy and squalls	Sea high and heavy swell from SSE, squalls again frequent.
	Ditto .	6 A.M.	13·52	84·17	SSE	6	Ditto ditto .	Sea very rough and moderate swell from SSE.
	Ditto .	7 A.M.	13·54	84·40	SE/S	6	Ditto ditto .	Very rough sea and moderate swell from SSE.
	Ditto .	8 A.M.	13·57	84·54	SE/S	7	Ditto ditto .	High sea and heavy swell from SE, occasional squalls.

The storm crossed the Coromandel coast on the afternoon of the 31st between Nellore and Masulipatam. After crossing coast, the storm lay as a shallow depression over south Hyderabad on the 1st morning. It weakened while moving northwestwards, and during the night a wave of low pressure passed out into the Arabian Sea causing squally weather with rain along the Bombay coast on the 2nd morning. Rainy weather extended into Kathiawar during the day and slightly unsettled conditions persisted in the northeast Arabian Sea upto the 4th whereafter weather became normal.

In connection with this storm fairly widespread rain fell in the Madras Presidency, with locally very heavy falls along the Coromandel and Circars coasts on the last four days of the month. Rainfall also extended into Hyderabad on the 31st. Some noteworthy falls of 5″ and above are given below :—

District.	Station.	October.		November 1st.
		30th.	31st.	
		″	″	″
East Godavari Plains	Mummidivaram .	..	5·00	..
	Rajole . . .	..	5·31	..
	Guden (Talabadu) .	..	5·15	..
	Tuni . . .	..	..	6·20
North Arcot . .	Cheyyar . .	..	..	5·32
Guntur . . .	Sattenapalle . .	..	..	5·26
Chingleput . .	Attipet . . .	7·20	..	6·03
	Poonamallee . .	5·33	..	5·07
	Ponneri .	9·33	..	..
	Saidapet . .	6·15	..	8·66
	Kattur . . .	8·60	..	..
	Chevur . . .	..	..	5·50
	Sriperumbudur .	5·10	..	..
	Madurankatam .	5·40	..	7·80
	Cheyur . . .	9·05	..	..
Chittoor . . .	Kalahosti . .	5·22	..	..

District.	Station.	October. 30th.	October. 31st.	November 1st.
		"	"	"
Nellore	Kavali	..	5·10	..
	Iskapalle	..	11·00	..
	Nellore	..	9·40	..
	Krishnapatam	..	9·35	..
	Sulurpet	12·10	..	..
	Tada	6·31	..	..
South Arcot	Merkanam	5·62	..	..
	Kurunjipadi	7·85	..	..
	Manambadi (Porto Novo).	6·48	..	..
	Pauruli	7·45	..	..
Travancore State	Karunagapalli	..	..	5·55
Vizagapatam Plains	Chedavaram	..	..	6·05
	Waltair	..	..	7·44
	Balacheruvu	..	..	6·80
	Anakapalli	..	..	8·20
	Yellamenchali	..	..	8·20
	Polavaram	..	..	9·35
Vizagapatam Agency	Gudem (Talabadu)	..	..	7·39

During the passage of the low pressure area in its final stage, fairly widespread rain often associated with thunderstorm occurred over the region from Central India to the north Konkan on the 2nd, 3rd and 4th.

15. *Unsettled conditions between the 5th and 7th November and 7th and 14th November, 1931.*—With the incursion of southeasterly to southerly winds in the south Bay, conditions became unsettled in the southwest Bay of Bengal to the northeast of Ceylon on the 3rd. The unsettled conditions slowly moved westwards and a wave of low pressure passed across south Madras into the southeast Arabian Sea by the 5th. The unsettled conditions continued to move westwards and were located in the neighbourhood of latitude 11°N, longitude 66°E on the 7th morning, becoming unimportant thereafter. Fairly widespread and locally very heavy rain occurred in the Madras Presidency between the 3rd and 7th, rainfall also occasionally extending into Mysore and the neighbouring regions.

The persistence of southerly to southwesterly winds in the southeast Arabian Sea after the 7th again gave rise to unsettled weather there, the region of disturbance being located about 75 miles to the northwest of Aminidevi on the 8th. The unsettled conditions persisted there and signs of a cyclonic circulation being set up were noticeable on the 9th. After the 10th the unsettled conditions began moving slowly northwestwards and could be located in the neighbourhood of latitude 16°N, longitude 64°E on the 14th. The disturbance did not, however, develop as the supply of southerly winds in the southeast Arabian Sea was diverted eastwards to the Bay by the 12th, the region of disturbed weather being surrounded by land air which had travelled over the sea and curved round. After the 14th, weather became normal in the Arabian Sea. In connection with this unsettled weather, scattered falls of rain occurred in the Deccan and the Konkan between the 9th and 13th.

16. *Depression, 9th to 14th December, 1931.*—On the 5th morning, pressure was seen falling over Ceylon and the Coromandel coast, while it was rising elsewhere. This suggested that conditions were becoming unsettled in the south Bay between Ceylon and the Andamans. The southeast winds and rain reported by *S. S. Chantilly* latitude 9½°N, longitude 87½°E on the 5th morning confirmed the view.

These unsettled conditions persisted in the south Bay for the next two days, and became more marked on the 8th morning, when a concentrated area of negative pressure departure was seen lying over south Bay between longitudes 81°E and 88°E.

Within the course of the next 24 hours a depression formed as was evident from the observations of the following ships and the Ceylon stations on the 9th morning, the centre of the depression being about 50 miles to the southwest of Hambantota.

Date.	Station or Steamer.	Hour.	Position. Lat. N.	Position. Long. E.	Wind. Dir.	Wind. Force.	Remarks.
9th Dec. 1931.	Hambantota	8	..	..	SE	2	Sea slight.
	Trincomalee	8	..	..	E	5	Sea very rough, rain, squall.
	Colombo	8	..	..	NNE	2	Sea moderate shower.
	Barala	7	6·30	82·30	SE	5	Sea moderate, swell moderate, weather getting better.
	Do.	8	6·20	81·59	SE	4	Sky partially cloudy, sea moderate.
	Golconda	7	7·30	82·30	ESE	2	Rain, sea smooth, swell moderate.
	Do	8	6·27	81·49	SE	2	Generally cloudy, sea slight.
	Trent Bank	8	8·37	84·24	E	6	Overcast, rain, squalls, sea rough.
	Hatkhola	8	8·00	82·43	E	5	Generally cloudy and rain, sea moderate.

With the northwestward movement of the depression during that day, winds considerably strengthened in the Gulf of Manar whence some steamers reported winds up to gale force with heavy rain squalls in the evening; the squalls experienced by *S. S. Waroonga* at 21 hours sometimes reached force 11. On the 10th morning, the depression was centred about 75 miles to the westnorthwest of Colombo, and during the next twelve hours only moved slowly somewhat

weakening at the same time. Thereafter it moved westwards rather rapidly and its centre lay about 50 miles to the south of Minicoy on the 11th morning. By this time a change had taken place in the upper winds over Trivandrum, namely, the northwesterly to westerly winds observed up to 2 Km. at 17 hours on the 10th changed to light southeasterly to southwesterly on the 11th morning, the winds above 2 Km. at this time being strong southwesterly (force 6).

The depression then began moving northwards and its central region was in the neighbourhood of Aminidevi on the 12th morning. The upper winds over Mangalore which had been northeasterly to easterly distinctly veered since the previous day and strong southeasterly winds were blowing up to 1 Km., the limit of observation, on the 12th. The northward movement of the depression continued during the next 48 hours, and on the 13th the centre was located at about 100 miles to the north of Aminidevi. The upper winds over Mangalore had veered further to south and were blowing a gale (force 8) up to 1 Km., while the winds over Poona were southeasterly of moderate force at 1 Km. and of force storm 10 at 2 Km. the limit of the flight. On the 14th morning, the depression became elongated its centre lying at that time about 100 miles to the west of Karwar, squally weather (winds of force 5 to 8 during squalls) being experienced along and off the Konkan coast on that day. While the depression moved further northwards, the southerly upper winds over Mangalore and the southeasterly winds over Poona weakened considerably and by the evening of the 14th the depression got occluded and subsequently the weather became normal.

During the period from the 8th to 11th, the depression caused fairly widespread and locally heavy rain in southeast Madras, the rainfall also extending into Malabar, Mysore, the west Deccan and the Konkan with the northward movement of the disturbance. Heavy rain in southeast Madras was responsible for damage to crops and railway and telegraph lines there.

Some of the very heavy falls of 5″ and above in southeast Madras are given in the following table :—

District.	Station.	9th.	10th.	11th.
		″	″	″
Ramnad	Sivaganga	..	..	5·23
	Pamban	5·59	7·51	..
	Tiruppattur	..	..	9·99
	Morikulam	6·07	4·97	..
The Nilgiris	Kaity	..	..	5·50
	Coonoor	..	..	6·10
	Kodanad	..	..	6·00
Tinnevelly	Kadayanallur	..	..	7·20
	Tenkasi	..	..	7·86
	Kadayam	..	..	5·90
	Ambasamudram	..	9·77	6·54
	Palamcottah	..	7·90	7·20
	Nanguneri	..	6·50	..
	Kulasekarapatnam	..	7·25	..
	Kiranur	..	8·45	..
	Srivaikuntan	..	8·56	..
	Tinnevelly	..	7·87	5·32
	Tiruchendur	..	9·08	..
South Arcot	Chidambaram	..	..	6·85
	Mannargudi	..	..	5·32
	Srimushnam	..	..	7·48
	Tittagudi	..	..	6·00
	Vriddhachalam	..	..	6·19
Tanjore	Kumbakonam	..	..	6·47
	Papanasam	..	..	7·11
	Tirukkatpalli	..	..	4·77
	Tanjore	..	..	6·05
	Pattukkottai	..	..	6·54
Trichinopoly	Ariyalur	..	..	9·44
	Jayankondam	..	..	7·93
	Lalgudi	..	..	4·76
	Trichinopoly	..	..	5·34
	Manapparai	..	..	7·28
	Uluppur	..	..	5·34
	Marungapuri	..	..	5·54
Travancore (Devikulam Division).	Kumizhi	..	5·35	..
(Quilon Division)	Ayakkudi	..	..	6·00
	Shenkotta (P. W. D. Office).	..	6·00	5·42
	Shenkotta (Taluk Cutchery).	..	4·73	5·98
(Trivandrum Division.)	Kolachal (Police station).	..	6·32	..
	Nagercoil	..	5·20	..
	Santapuram	..	4·90	..
	Rajakkamangalam	..	6·52	..
	Tamarakulam (New salt factory).	..	5·15	..
Salem	Thammampatti	..	..	5·73

17. *Storm, 22nd to 24th December, 1931.*—With a strengthening of the northeast monsoon over the south Bay on the 21st morning, conditions became markedly unsettled in south-

west Bay, particularly off the east coast of Ceylon. The following ships' observations indicated that conditions were becoming favourable for the formation of a depression to the east of Ceylon.

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force	
21st Dec. 1931.	"Gurna" .	10	9·30	88·30	SE	5	Squally, sea rough.
	"Warialda" .	10	10·30	86·30	ESE	5	Squally, sea rough.
	Do. .	18	12·30	87·30	NE	12	Squally, sea rough.
	"Warina" .	8	8·43	85·05	NE/E	5	Overcast, rain, squall.
	"Garada" .	10	7·30	83·30	NNE	5	Rain, sea slight.
	Do. . .	18	7·30	85·30	SW	5	Sea moderate, weather getting better.
			(3 hrs. previous)		NW	2	
	"Barmaria" .	8	9·00	83·00	NE	5	Cloudy.
	"Wishart" .	5/30	6·00	86·54	SSE	5	Rain, moderate sea.
	"Felix Rousel"	7	5·30	84·30	NNW	2	Squally, sea moderate.
			(3 hrs. previous)		NW	2	

Rough seas, squally weather and rain were reported from most of the ships off the east coast of Ceylon.

Pressure fell progressively over Ceylon and along the south Madras coast. These unsettled conditions intensified in the course of the day, and by the 22nd morning developed into a deep depression off the east coast of Ceylon with its centre within half a degree of latitude 7½°N, longitude 82½°E. The upper winds at Madras up to 2 Km. height were from a northeasterly direction, their force being 7 or 8. The deep depression intensified rapidly into a storm by noon of the same day.

Pressure continued to fall and the storm intensified further into a severe one during the course of the next 24 hours, moving in a northwesterly direction. *S. S. Surada* on her way from Colombo to Madras was caught in this storm, and the following extract from her logs gives an idea of the rough weather and violent winds experienced.

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
21st Dec. 1931.	"Surada" .	8 P.M.	..	..	NNE	6	Sea rough, heavy swell from SW, overcast, rain.
22nd Dec. 1931.	Do. .	4 A.M.	..	..	E	8	Sea rough, heavy swell.
	Do. .	7 A.M.	..	..	E	9	Squall.
	Do. .	8 A.M.	9·31	81·47	E	7	Sea rough, swell heavy confused overcast, rain, squall.
	Do. . .	10 A.M.	..	..	ENE	10	..
	Do. . .	Noon	9·48	81·40	E/N	10	
22nd Dec. 1931—*contd.*	"Surada" .	7 P.M.	10·30	85·30	E	7	Sea rough, squally.
	Do. . .	8 P.M.	..	..	E	6	Sea rough, swell heavy confused, overcast, rain, squall, gloomy.
	Do. . .	10 P.M.	..	..	ENE	8	Heavy rain.
	Do. . .	Midnight.	..	..	NE/E	10	Sea rough, swell heavy.
23rd Dec. 1931.	Do. . .	4 A.M.	..	..	NE	8	Sea rough, swell heavy.
	Do. . .	12 A.M.	11·36	80·56	ENE	9	Sea rough, swell heavy, heavy rain.
	Do. . .	8 A.M.	11·18	81·13	ENE	8	Sea rough, swell heavy from NE, overcast.
	Do. . .	4 P.M.	..	..	NE	8	Sea rough, swell heavy.
	Do. . .	7 P.M.	11·30	80·30	NE	8	Sea rough, squally.
	Do. . .	8 P.M.	..	..	NE	8	Sea rough, swell heavy from NE, overcast, squally, rain.
	Do. . .	12 P.M.	..	..	NE	8	Sea rough, swell heavy, violent rain squall.

It will be noticed from above that the storm probably became severe by about the noon of 22nd when winds of force 10 were reported. The rapid intensification was responsible for very rough weather which was experienced at Madras at the time about 400 miles away from the centre of the storm. The following are the remarks from the Port Officer, Madras:—

"Velocity of wind 41 miles at 3-5 A.M., direction NNE. Rain and drizzle at intervals between 8-29 A.M. and 11-29 P.M. Squalls at intervals from NNE whole day. Sea very rough inside and tremendous outside harbour. Weather cloudy, misty, squally and rainy with a fall of 0·11″ in the barometer between 8 A.M. on 21st December 1931 and 12 midnight on 22nd December 1931."

S. S. Ethiopia arrived at Madras on the 21st, and could not leave for Rangoon till 25th, on account of frequent heavy rain squalls.

On the afternoon of the 22nd the storm lay centred near latitude 9°N, and longitude 81°E, when a pressure departure of 0·34″ was reported from Trincomalee. The negative pressure departure was confined to southwest Bay, whereas the pressure was above normal elsewhere and this condition persisted more or less for the next two days.

As a storm of small extent, it continued to move in a northwesterly direction, and on the 23rd morning it was apparently passing into Palk Strait the negative pressure departure near the centre being of the order of 0·25″. Thereafter it began to move very slowly and on the same afternoon it was located about 50 miles southeast of Negapatam.

The following table prepared from the report of Port Officer, Negapatam, is interesting :—

Date.	Hour.	Wind. Dir.	Wind. Force.	Remarks.
22nd Dec. 1931.	2	NNE	4	Sea moderate, drizzle and rain (thunderstorm).
	8	ENE	5	Rough sea with heavy swell from NE, the rainfall for the previous 24 hours being 1·03″.
	11	NE	4	Sea rough, intermittent moderate rain.
	15	ENE	6	Sea very rough, intermittent moderate rain.
	17	ENE	7	Very rough sea with heavy swell from NE.
	19	ENE	8	Sea very rough with very heavy northeasterly swell.
	23	NE	8	Sea very rough, swell heavy from NE, rain and squall, occasional precipitation, light squall increasing in intensity.
23rd Dec. 1931.	2	NNE	7	Sea very rough with very heavy northeasterly swell, raining continuously.
	8	NNE	6	Sea very rough with very heavy swell, rain during the previous 24 hours—4·91″, rain continued very heavily.
	11	NNE	6	Sea very rough, rain with squalls.
	15	NNE	8	Sea high with very heavy swell from NE, rainfall from 8 hours being 10·76″.
	17	N	7	
	19	NNW	5	Sea very rough with very heavy swell.
	23	N	7	Sea very rough with very heavy swell.
24th Dec. 1931.	2	NNW	5	Sea very rough, intermittent moderate rain.
	8	ENE	6	Rainfall for the previous 24 hours—14·44″.
	11	ENE	6	Rough sea and heavy northeasterly swell.
	15	E	6	Rough sea and heavy swell.
	17	E	5	Mainly overcast.
	19	SSE	4	Moderate sea with moderate swell.

The Port Officer, Pamban, thus described the weather between 21st to 23rd December, 1931 :—

" Severe gale of wind and very rough seas prevailed on the 22nd from 5 P.M. The weather was stormy with drizzling rain, heavy squall and very rough seas on the 23rd from 6 A.M. to 6 P.M. The weather moderated after 6 P.M. on the 23rd."

The storm remained practically stationary southeast of Negapatam till about early morning of 24th and then moving very slowly still in a northwesterly direction it began to weaken. It crossed coast at about 17 hours on the 24th about 20 miles south of Negapatam and then began to weaken rapidly. By next morning it lay as a low pressure area over south Madras, and gradually filled up during the course of the day.

It caused fairly widespread rain with locally very heavy falls in southeast Madras between the 20th and 24th. The following table gives the noteworthy falls of 5″ and above on 23rd and 24th December :—

District.	Station.	23rd.	24th.
		″	″
South Arcot	Markanam	..	5·75
	Villupuram	..	6·06
	Panruti	..	8·25
	Cuddalore	..	9·71
	Kurinjipadi	..	6·13
	Manambadi (Porto Novo)	..	8·12
	Chidambaram	5·13	7·61
	Mannargudi	..	7·60
	Vriddhachalam	..	5·19
Tanjore	Shiyali	..	8·78
	Neidavasal	..	5·99
	Tranquebar	..	9·35
	Mayavaram	..	7·09
	Kumbakonam	5·10	5·64
	Papanasam	..	5·03
	Kodavasal	..	6·62
	Nannilam	..	10·32
	Tiruvalur	..	9·23
	Negapatam	4·91	14·44
	Tiruppundi	5·15	14·62
	Vedaranniyam	11·75	13·60
	Tirutturaippundi	..	7·66
	Muttepet	5·00	7·10
	Mannargudi	5·15	7·86
	Pattukkottai	..	5·24
	Adirampatnam	..	5·41
Trichinopoly	Jayankondan	..	6·19

Heavy rainfall in southeast Madras was responsible for breaches in the railways and telegraph lines there.

WESTERN DISTURBANCES.

The following is a list of the western disturbances which affected the weather in northern India during the year with the dates on which they did so and brief notes on the precipitation that they produced :—

	January.	
1	1—4 . .	Local falls of rain or snow in Kashmir between the 2nd and 4th.
2	6—11 . .	Local falls of rain in Baluchistan on the 6th and 7th, fairly widespread rain or snow from northeast Baluchistan to Kashmir between the 8th and 10th and a few falls in the west United Provinces on the 9th and in Assam on the 11th.
3	14—15 . .	A few light falls of rain or snow in Kashmir on the 14th and 15th.
4	17—18 . .	A few light falls of rain or snow in the North-West Frontier Province and Kashmir on the 17th and a few falls in the east Punjab on the 18th.
5	19—20 . .	Local rain in the North-West Frontier Province and Kashmir and a few falls in Baluchistan and the north Punjab on the 19th, and nearly general rain or snow in Kashmir and light local rain in the east and north Punjab with a few falls in the North-West Frontier Province on the 20th.
6	22—25 . .	Widespread rain along the northwest frontier and in Kashmir and the Punjab between the 22nd and 25th with local falls in the Kumaon Hills on the 23rd and 24th; also a few light showers in lower Sind on the 23rd.
7	25—27 . .	A few light showers in Kashmir and along the northwest frontier between the 25th and 27th and also a few falls in the Punjab Hills on the 25th.
8	29—3rd February	Nearly general rain or snow in Baluchistan on the 30th, 31st and 1st and fairly widespread rain or snow in the North-West Frontier Province and Kashmir and along and near the Punjab-Kumaon Hills on the 31st, 1st and 2nd, with local falls of rain in east Central India, the Central Provinces, the east United Provinces, Bihar and Chota Nagpur on the 2nd and 3rd.
	February.	
9	5—10 . .	Fairly widespread precipitation in Baluchistan on the 6th and from the North-West Frontier Province and Kashmir to Bihar on the 7th and 8th, with scattered falls in Chota Nagpur, Bengal, Assam and Upper Burma between the 8th and 10th.
10	8—14 . .	Widespread rain in Baluchistan on the 9th and in northeast India on the 11th, with local rain in the United Provinces and east Central India on the same day; a few falls also occurred in Kashmir and the east and north Punjab on the 10th and 11th and in Bengal, Assam and Upper Burma on the 12th.
11	12—18 .	Fairly widespread rain in north Baluchistan on the 12th and 13th, in the North-West Frontier Province and Kashmir on the latter date, in the United Provinces and northeast India on the 15th and 16th and along and near the western Himalayas on the 17th, with scattered falls in the North-West Frontier Province and Kashmir on the 16th and 18th and in the Central Provinces, Chota Nagpur, Orissa and Bengal from the 17th to 22nd.
12	18—23 .	
13	21—27 . .	Widespread precipitation in Baluchistan on the 22nd, along and near the western Himalayas on the 23rd and 24th and in Chota Nagpur on the 24th and local falls of rain from Kashmir to Bihar on the 25th, with a few falls in the Central Provinces and northeast India from the 24th to 26th.
14	26—28 . .	Nearly general rain in Baluchistan on the 27th and local falls of rain or snow in the North-West Frontier Province and along the western Himalayas on the 27th and 28th.
	March.	
15	1—5 . .	Fairly widespread precipitation in the North-West Frontier Province, the Punjab and Kashmir from the 1st to 3rd, in Baluchistan on the 1st and 2nd and in the west United Provinces on the 2nd and 3rd and local rain in west Rajputana on the 2nd, with a few falls along the western Himalayas on the 4th.
16	5—7 . .	A few falls of rain or snow in Baluchistan on the 5th and along the North-West Frontier Province and in Kashmir on the 6th.
17	13—16 . .	Local rain in Baluchistan on the 13th and a few falls in Sind on the 14th and in Kashmir and along and near the Punjab Hills on the 15th and 16th.
18	21—30 . .	A few falls of rain or snow in the North-West Frontier Province on the 25th and 26th, local rain in Kashmir on the 26th and 27th and nearly general thundershowers in Assam, with a few falls in Bengal on the 30th.
19	31—2nd April .	A few falls of rain in Baluchistan on the 31st and local rain in Baluchistan, with a few falls in the North-West Frontier Province and Kashmir on the 1st and 2nd.
	April.	
20	3—4 . .	Local rain in Kashmir and a few falls in the east United Provinces, Chota Nagpur and Assam on the 3rd and a few falls in the North-West Frontier Province and the Simla Hills on the 4th.
21	5—8 . .	Local rain along the northwest frontier and in the Punjab-Kumaon Hills on the 5th; fairly widespread thundershowers in Assam from the 5th to 8th, in Upper Burma on the 5th and in Bengal on the 7th and 8th and a few falls in Upper Burma on the 4th, 6th and 7th, in Bengal on the 5th and 6th and in Bihar and Orissa from the 6th to 8th.

22	8—14 . .	Nearly general rain in the North-West Frontier Province on the 10th, with local rain in Kashmir on the 11th and 12th, in the east and north Punjab on the 11th and in Assam on the 13th, and a few falls in the North-West Frontier Province, the southwest Punjab and the west United Provinces on the 11th and in the east Central Provinces, Orissa and Bengal on the 13th.
23	13—17 . .	A few falls of rain in the North-West Frontier Province on the 16th and in the north Punjab and Kashmir on the 17th.
24	18—19 . .	Local rain or snow in Kashmir on the 19th and 20th, with a few falls along the north-west frontier and in the north Punjab Hills on the 19th.
25	22—25 .	Local rain or snow in Kashmir with a few falls in the North-West Frontier Province from the 23rd to 27th, a few falls in north Baluchistan on the 25th and in Kashmir on the 28th.
26	25—28 .	
27	29—2nd May .	Local rain or a few falls in Kashmir between the 30th and 2nd with a few falls in the North-West Frontier Province on the 1st.
	May.	
28	4—5 . .	A few falls in Kashmir on the 4th and 5th and in the North-West Frontier Province on the latter date.
29	10—15 . .	Widespread rain along the northwest frontier and in Kashmir on the 11th, along and near the western Himalayas on the 12th and 13th and in the Punjab Hills on the 14th and 15th; local rain in the North-West Frontier Province and Kashmir on the 10th, in Sind on the 11th, in west Rajputana on the 12th, 13th and 14th and in and near the Kumaon Hills on the 12th.
30	17—20 . .	A few falls of rain in the North-West Frontier Province on the 17th and 19th and nearly general rain in Kashmir, with a few falls in and near the Punjab Hills on the latter date.
	June to September	No well-defined western disturbances.
	October.	
31	13—14 . .	A few falls in the North-West Frontier Province on the 12th and nearly general rain on the 13th, and local rain in Kashmir and the adjoining parts of the Punjab on the 13th and 14th.
32	16—17 . .	Local thundershowers in the North-West Frontier Province on the 16th.
33	27—28 . .	Nearly general rain in the North-West Frontier Province and the southwest Punjab on the 27th and local rain there with a few falls in Kashmir and the Punjab Hills on the 28th.
	November.	
34	9—10 . .	Light rain in Kashmir on the 9th and 10th and in the North-West Frontier Province on the former date.
35	21—22 . .	Local rain or snow in Kashmir on the 21st with a few light showers on the next day.
36	23—24 . .	A few light falls of rain or snow in the North-West Frontier Province on the 23rd and in Kashmir on the 24th.
37	27—30 . .	No precipitation.
	December.	
38	5—10 . .	Local falls of rain or snow in Kashmir on the 5th and 7th, with a few falls in the North-West Frontier Province on the 6th; it induced a secondary depression which caused a few falls of rain in Baluchistan on the 8th and 9th and nearly general rain in the North-West Frontier Province on the latter date, with a few falls on the 10th.
39	25—26 . .	A few light showers in Kashmir on the 26th.

LOCAL STORMS.

Of the local storms reported in newspapers, the following are noteworthy :—

February 17th.—Six men were killed and thirty seriously injured as a result of a severe hailstorm near the village of Gopalpur in the district of Manbhum (Chota Nagpur).

Another village named Karakanali was also swept by a storm, one man being killed and several injured.

February 26th.—A short-lived nor'wester passed over Calcutta at about 9 P.M. A number of telephone lines were temporarily put out of order.

March 4th.—Great damage was caused to the standing *rabi* crops by a hailstorm which passed over Motihari (Bihar).

March 5th.—Hail stones of diameter more than an inch fell over the town of Barisal during a thunderstorm that lasted for about half an hour in the noon. The storm was reported to have caused much damage to buildings and trees.

A severe nor'wester passed over several villages seven miles to the northwest of the town of Noakhali (Bengal). The houses and trees lying in the track of the storm were reported to have been levelled to the ground.

April 6th.—A boat capsized in the river near Pabna (Bengal) during a thunderstorm drowning one man.

April 9th.—A severe thunderstorm accompanied by hail passed over Chittagong in the night causing much damage to electric wires.

May 2nd.—A thunderstorm that swept through Travancore caused three deaths ; a girl was killed in a house collapse, a man was struck by lightning and a woman was buried under an uprooted tree.

May 3rd.—A severe thunderstorm passed over Dacca and the adjoining villages in the night, as a result of which several houses were blown away and several trees were uprooted. Power supply was interrupted in many places.

May 7th.—A severe thunderstorm passed over Mysore in the night and the electric supply of the city failed owing to some poles being blown down during the storm.

A thunderstorm passed over Calicut in the night and caused severe havoc. A lighter engaged in landing cement from a steamer sank with 95 barrels alongside the steamer. Many large trees were uprooted.

May 12th.—A severe duststorm followed by rain swept over Amritsar in the night. The electric and telephone wires were broken at many places and the city remained in darkness throughout the night.

May 13th.—A severe storm accompanied by heavy rain passed over Madras in the night. Several large trees and telephone poles were uprooted.

May 14th.—Heavy damage to buildings and other property as a result of a thunderstorm was reported from Jacobabad. Two lives were reported to have been lost by the fall of trees and buildings.

May 14th.—A passenger train running from Lalamusa to Multan was held up owing to a heavy sandstorm blowing for full 13 hours.

May 18th.—A severe storm passed over Chandpur (Bengal) destroying several houses and capsizing a large number of loaded country boats.

May 20th.—A duststorm of unusual severity followed by rain occurred at Jubbulpore in the afternoon causing great havoc. Telephone communication was interrupted and many trees were uprooted.

May 21st.—A fierce, though short-lived, thunderstorm passed over Tanjore in the night. Lightning struck a house killing a woman who was inside.

May 22nd.—Trees were uprooted and telegraph wires damaged during a storm which was followed by heavy rain at Trichinopoly. A huge tree that was uprooted fell on a shed killing two persons and seriously injuring three others.

May 22nd.—A severe storm accompanied by heavy rain swept over Trichur in the night doing considerable damage to property.

May 23rd.—Hailstorms of unusually large size played havoc in several talukas of the Sukkur District (Sind).

May 23rd.—A severe storm swept over Sangli and the neighbouring places uprooting many trees. Much damage was done to the Post Office and Library Buildings.

May 24th.—A storm passed over Tirupur and surrounding villages in the evening causing damage to houses, factories and other buildings.

May 25th.—A severe thunderstorm passed over Adoni (Madras) in the night causing considerable damage. The roofs of a number of houses and factories were blown off.

May 26th.—A severe hailstorm with rain passed over Mussooree in the afternoon.

May 27th.—A severe thunderstorm causing considerable damage passed over Trichur in the night.

May 28th.—A girl and a man were reported to have been killed and extensive damages done to house and property by a storm which blew over Sandwip Island (Bengal). Several fishing boats capsized in the river.

May 29th.—A severe thunderstorm passed over the city of Jubbulpore in the night. The furious wind which blew from the northwest uprooted several trees and carried off the branches of many others.

June 5th.—A severe duststorm at Jhang Maghiana (Multan) uprooted many trees; one of the big trees falling on a man crushed him to death.

June 6th.—A storm of great violence passed over Singu (Burma) in the evening and completely destroyed the steel structure of the new main office of the Burma Oil Company which was in the course of construction. Four workmen were reported to have been killed.

June 10th.—Four persons and about 600 animals were reported to have been killed by a hailstorm which swept over the Singhoro Taluka in Sind.

June 12th.—A severe thunderstorm accompanied by rain blew over Chittagong in the morning causing damage to many houses and trees.

Jhansi experienced a severe duststorm; the roofs of many shops were torn away, trees were uprooted and traffic completely suspended for some time.

August 29th.—A country boat capsized in a squall off the mouth of the Dabhol creek and the crew of six were reported to be missing.

September 1st.—A severe thunderstorm followed by heavy showers damaged the main line electric wires at the Ridge Military Quarters at Jubbulpore.

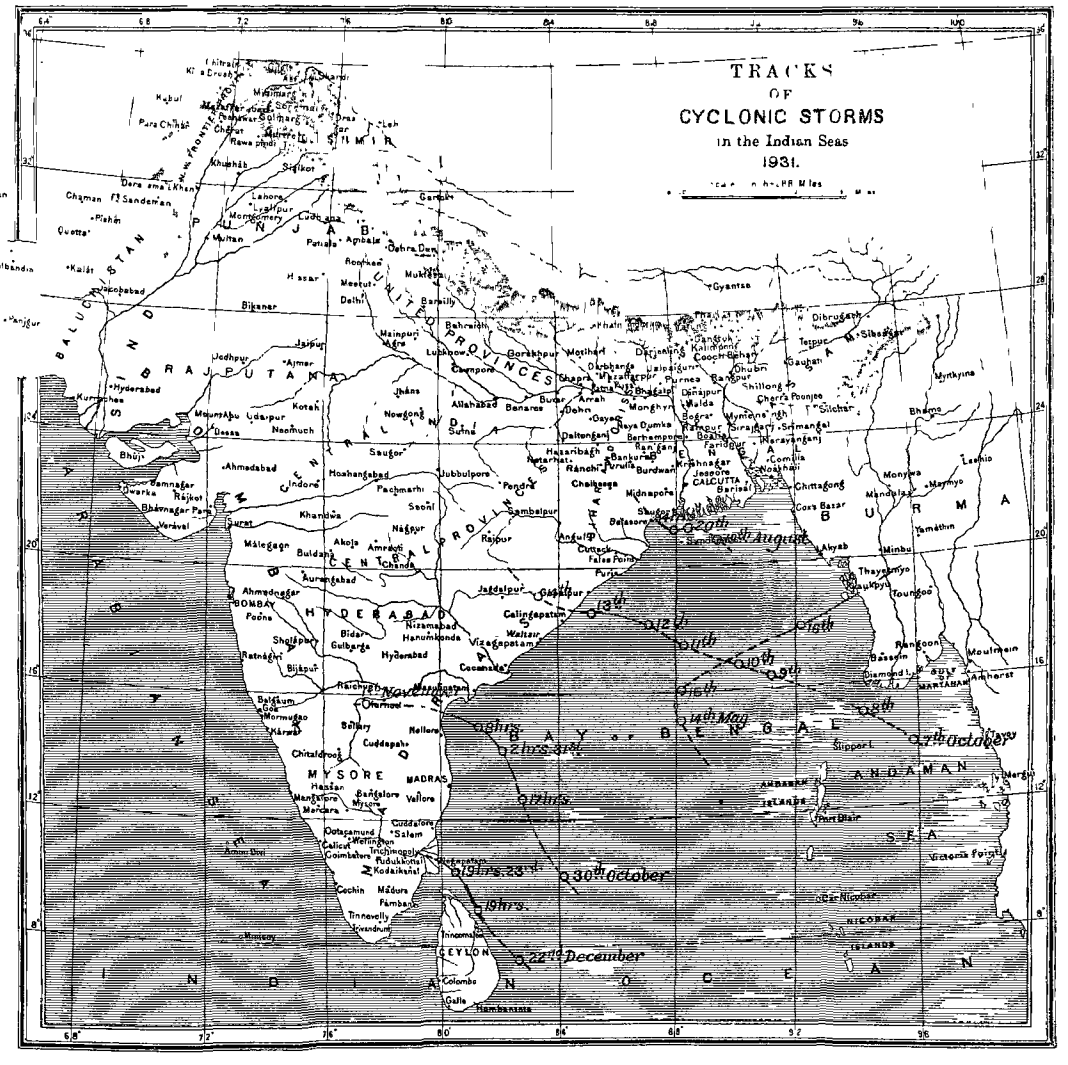
September 23rd.—Two persons were reported to have been killed and four others severely injured as a result of the crashing of a tree, which was struck by lightning during a heavy thunderstorm that passed near Madras.

WINDS OF FORCE NINE OR MORE IN INDIAN SEAS.

Excluding dates of storms and depressions, a description of which has been given above, winds of force nine or more were recorded on ships in the Indian seas during the year 1931 on the following occasions.

Date.	Name of ship.	Approximate Position.	
		Latitude.	Longitude.
		°N	°E
7th June	"Joyhiko Maru"	6	78
Do.	"Frauenfels"	9	68
27th June	"Deebank"	12	55
2nd July	"Gange"	16	61
3rd July	"Geierfels"	14	54
4th July	"Geierfels"	16	61
5th July	Do.	16	64
10th August	"Ranchi"	16	63
21st to 23rd August.	"Barenfels"	bet. 10 & 12	bet. 61 & 55

MGIPC—M—VIII-3-55—3-3-33—390.


TRACKS
OF
CYCLONIC STORMS
in the Indian Seas
1931.
Depression
Storm
Severe Storm
BALUCHISTAN
PUNJAB
RAJPUTANA
UNITED PROVINCES
CENTRAL PROVINCES
BERAR
CENTRAL INDIA
BOMBAY
HYDERABAD
MADRAS
MYSORE
CEYLON
BENGAL
BURMA
ASSAM
ANDAMAN ISLANDS
NICOBAR ISLANDS
ARABIAN SEA
BAY OF BENGAL
INDIAN OCEAN
Kashmir
Leh
Peshawar
Rawalpindi
Lahore
Amritsar
Simla
Quetta
Multan
Delhi
Jodhpur
Ajmer
Jaipur
Bikaner
Lucknow
Cawnpore
Allahabad
Benares
Gorakhpur
Patna
Darjeeling
Gauhati
Shillong
Dibrugarh
Sibsagar
Imphal
Myitkyina
Bhamo
Calcutta
Chittagong
Akyab
Minbu
Thayetmyo
Prome
Rangoon
Moulmein
Amherst
Mergui
Port Blair
Victoria Point
Car Nicobar
Bhuj
Ahmadabad
Surat
Bombay
Poona
Nagpur
Jubbulpore
Raipur
Sambalpur
Cuttack
Puri
Vizagapatam
Madras
Cuddalore
Pondicherry
Cocanada
Negapatam
Trincomalee
Colombo
Galle
Hambantota
Jaffna
Mannar
Tuticorin
Cochin
Calicut
Mangalore
Bangalore
Hyderabad
Nizamabad
Aurangabad
Akola
Nasik
Indore
Mhow
Udaipur
Jodhpur
Kotah
Jhansi
Gwalior
Agra
Meerut
Ambala
Lyallpur
Montgomery
Multan
Dera Ismail Khan
Sibi
Jacobabad
Karachi
Hyderabad
Mount Abu
Deesa
Naosari
Broach
Baroda
Ahmedabad
Godhra
Ratnagiri
Belgaum
Bijapur
Gulbarga
Raichur
Kurnool
Cuddapah
Nellore
Ongole
Masulipatam
Guntur
Kakinada
Vizagapatam
Berhampur
Puri
Balasore
Midnapore
Kharagpur
Jamshedpur
Ranchi
Hazaribagh
Gaya
Dehri
Sasaram
Mirzapur
Fyzabad
Gonda
Bareilly
Moradabad
Saharanpur
Ambala
Amritsar
Ferozepore
Lahore
Sialkot
Rawalpindi
Peshawar
Kohat
Bannu
Dera Ghazi Khan
Sukkur
Jacobabad
Quetta
Nushki
Chaman
Kabul
Kandahar
Seistan
Pasni
Panjgur
Dalbandin
Kalat
Sonmiani
Karachi
Veraval
Porbandar
Okha
Jamnagar
Rajkot
Bhavnagar
Cambay
Dhulia
Jalgaon
Akola
Amraoti
Chanda
Wardha
Yeotmal
Buldana
Malegaon
Nasik
Ahmednagar
Sholapur
Bidar
Nizamabad
Warangal
Hanamkonda
Karimnagar
Adilabad
Chanda
Jubbulpore
Katni
Damoh
Saugor
Sehore
Dewas
Ujjain
Ratlam
Neemuch
Chittorgarh
Udaipur
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Valsad
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Salem
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Pudukkottai
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Tinnevelly
Kodaikanal
Periyakulam
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Gadag
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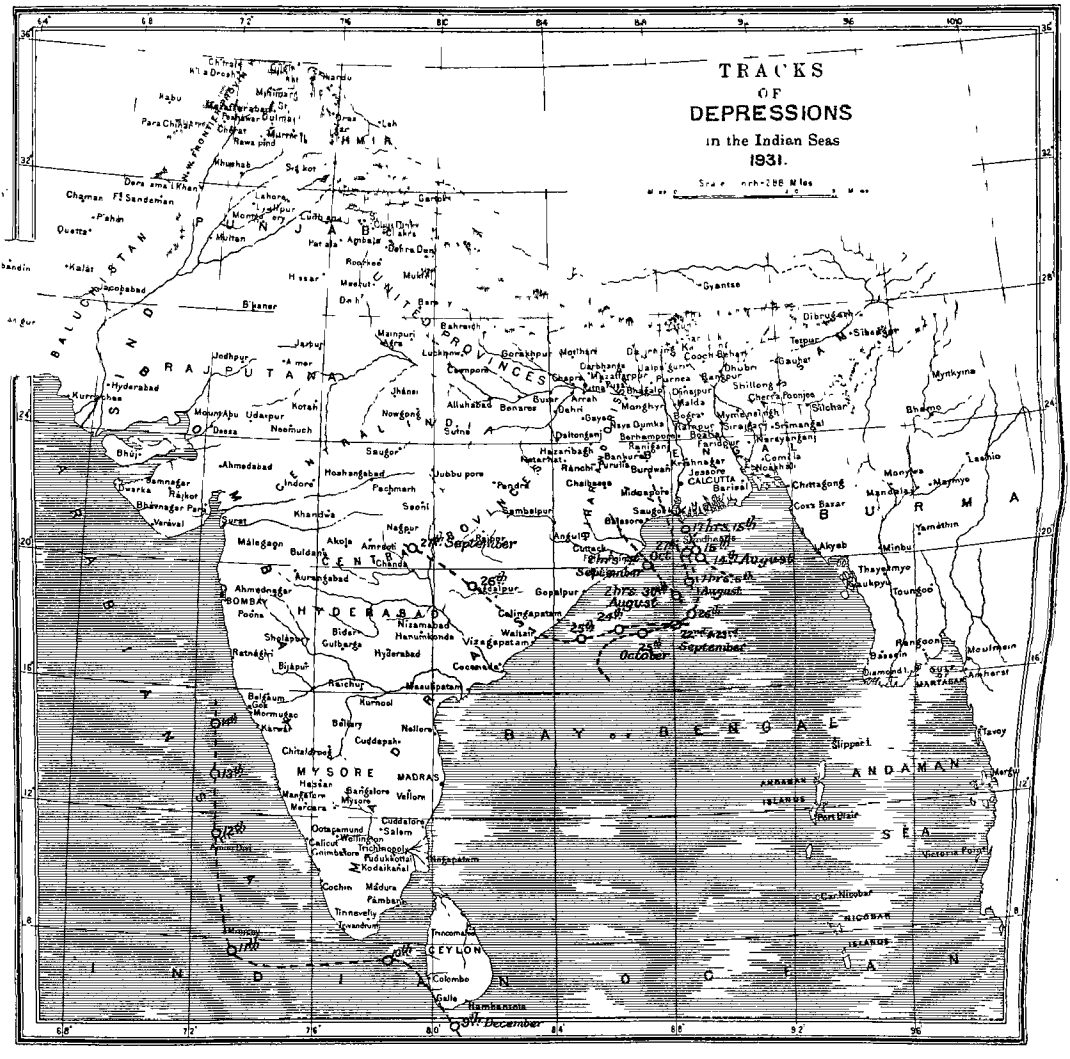
Chitaldroog
Bangalore
Mysore
Hassan
Vellore
Kolar
Cuddapah
Nellore
Ongole
Guntur
Masulipatam


TRACKS
OF
DEPRESSIONS
in the Indian Seas
1931.
Scale 1 inch = 288 Miles
BALUCHISTAN
NORTH-WEST FRONTIER
PUNJAB
RAJPUTANA
UNITED PROVINCES
BENGAL
BURMA
BOMBAY
CENTRAL PROVINCES
HYDERABAD
MYSORE
MADRAS
BAY OF BENGAL
ANDAMAN ISLANDS
NICOBAR ISLANDS
ARABIAN SEA
INDIAN OCEAN
CEYLON
Colombo
Galle
Hambantota
Trincomalee
Karachi
Quetta
Lahore
Multan
Delhi
Lucknow
Allahabad
Benares
Calcutta
Patna
Gaya
Ranchi
Jodhpur
Udaipur
Ahmedabad
Surat
Bombay
Poona
Nagpur
Jubbulpore
Akola
Aurangabad
Sholapur
Bijapur
Hyderabad
Bidar
Nizamabad
Vizagapatam
Cocanada
Masulipatam
Raichur
Kurnool
Bellary
Nellore
Madras
Bangalore
Mysore
Vellore
Cuddalore
Salem
Coimbatore
Pondicherry
Negapatam
Cochin
Madura
Pamban
Tinnevelly
Trivandrum
Cuttack
Puri
Gopalpur
Calingapatam
Waltair
Akyab
Minbu
Thayetmyo
Toungoo
Rangoon
Bassein
Moulmein
Amherst
Tavoy
Mergui
Port Blair
Victoria Point
Car Nicobar
Diamond I.
Slipper I.
Sandheads
Chittagong
Cox Bazar
Sibsagar
Dibrugarh
Shillong
Cherra Poonjee
Mymensingh
Jalpaiguri
Darjeeling
Gangtok
Gyantse
Bhamo
Myitkyina
Lashio
Maymyo
Mandalay
Yamethin
Monywa
Kurrachee
Hyderabad
Jacobabad
Sukkur
Sibi
Kalat
Chaman
Fort Sandeman
Parachinar
Kohat
Peshawar
Rawalpindi
Murree
Kashmir
Srinagar
Leh
Dera Ismail Khan
Sargodha
Montgomery
Lyallpur
Ferozepore
Ambala
Dehra Dun
Roorkee
Meerut
Delhi
Hissar
Bikaner
Jaisalmer
Jodhpur
Ajmer
Mount Abu
Deesa
Neemuch
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Cawnpore
Fatehgarh
Shahjahanpur
Bareilly
Moradabad
Saharanpur
Ambala
Simla
Dharmsala
Gorakhpur
Basti
Fyzabad
Benares
Allahabad
Mirzapur
Jubbulpore
Seoni
Chanda
Nagpur
Amraoti
Akola
Khandwa
Indore
Ujjain
Ratlam
Mhow
Neemuch
Udaipur
Jodhpur
Ahmedabad
Bhavnagar
Rajkot
Porbandar
Veraval
Surat
Broach
Baroda
Cambay
Dhulia
Malegaon
Nasik
Ahmednagar
Aurangabad
Jalna
Parbhani
Nanded
Bidar
Gulbarga
Hanumkonda
Warangal
Khammamett
Rajahmundry
Cocanada
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Bogra
Pabna
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Dacca
Narayanganj
Comilla
Noakhali
Sylhet
Cherra Poonjee
Shillong
Gauhati
Tezpur
Dibrugarh
Sibsagar
Myitkyina
Bhamo
Monywa
Mandalay
Maymyo
Lashio
Yamethin
Minbu
Akyab

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW

ANNUAL SUMMARY FOR 1931

PART D

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Director General of Observatories

CALCUTTA: GOVERNMENT OF INDIA
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1932

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METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW

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MONTHLY AND ANNUAL

Abstract of observations taken at 10 hrs. (local time)

Station and height of bar. above sea level in feet.	Month.	Pressure (reduced to 32° F. and standard gravity.)					Temperature of air.								Temperature wet bulb.		Nocturnal radiation temperature.		
		Mean 10 hrs.	Mean 17 hrs.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean maximum.	Mean minimum.	Highest maximum.	Lowest minimum.	Mean 10 hrs.	Mean 17 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 17 hrs.	Mean.	Depression below mean minimum.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lahore (Punjab) (702).	January	29·356	29·260	·096	29·298	+·007	70·8	43·0	78	36	57·7	67·8	54·8	+1·8	51·5	56·8	33·3	9·7	—0·1
	February	·327	·242	·085	·276	+·030	66·4	43·3	74	38	57·2	64·5	53·8	—3·5	50·7	54·0	34·2	9·1	—0·4
	March	·229	·147	·082	·185	+·053	82·6	52·6	99	43	74·5	80·7	66·9	—2·1	59·3	60·9	43·6	9·0	—0·2
	April	·060	28·962	·098	·007	+·007	98·6	66·6	109	58	90·3	96·2	82·3	+1·4	66·5	69·2	58·4	8·4	—1·1
	May	28·926	·828	·098	28·874	+·004	103·0	73·5	112	62	95·6	100·9	88·0	—0·9	69·8	70·4	65·8	7·7	—1·4
	June	·820	·726	·094	·769	+·031	103·0	77·7	115	70	100·4	106·2	92·4	—0·6	72·9	72·7	70·3	7·4	+0·8
	July	·775	·683	·092	·728	—·005	96·3	78·4	113	69	89·6	94·2	86·4	—2·7	79·8	81·0	75·8	2·6	—1·4
	August	·792	·689	·103	·736	—·063	96·2	79·6	106	73	89·0	93·3	87·1	0	82·0	83·1	78·3	1·5	—2·6
	September	·980	·880	·100	·922	—·015	95·3	74·6	101	72	88·6	93·1	83·9	—0·9	77·8	78·2	69·8	4·8	—2·1
	October	29·179	29·076	·103	29·117	+·008	90·3	65·0	98	50	83·2	87·3	76·8	+0·6	70·4	71·9	59·0	6·0	—3·9
	November	·312	·218	·094	·256	+·005	82·6	48·8	36	43	73·1	76·3	63·7	+0·5	59·8	63·2	42·9	5·9	—4·9
	December	·366	·272	·094	·309	—·011	73·2	40·9	79	34	62·9	67·5	54·9	+0·3	52·9	56·7	34·7	6·2	—3·6
	Year	29·093	28·999	·094	29·040	+·004	88·6	62·0	115	34	80·2	85·7	74·2	—0·5	66·1	68·2	55·5	6·5	—1·8
Jaipur Rajputana (1,431).	January	28·621	28·511	·110	28·555	+·017	78·0	50·5	84	40	69·6	74·7	62·9	+3·0	54·8	57·8	..	..	..
	February	·581	·478	·103	·518	+·026	74·1	50·7	83	37	65·7	71·3	61·3	—2·9	52·9	55·2	..	..	..
	March	·533	·422	·111	·469	+·062	90·1	59·3	103	44	83·0	87·9	74·3	—0·6	59·4	60·5	..	..	..
	April	·388	·272	·116	·325	+·024	103·7	72·8	109	65	95·7	101·0	88·2	+1·9	66·3	66·5	..	..	..
	May	·269	·162	·107	·213	+·015	107·3	78·6	114	63	98·7	103·0	92·1	+0·5	69·7	69·2	..	..	..
	June	·183	·075	·108	·132	+·045	108·3	81·9	114	73	100·3	105·3	93·9	+3·3	72·5	72·2	..	..	..
	July	·125	·021	·104	·075	+·008	94·9	78·5	106	69	87·3	91·1	85·5	+0·8	77·4	77·8	..	..	..
	August	·111	·017	·094	·036	—·067	88·8	77·1	95	73	84·2	86·2	81·3	—1·0	79·2	79·8	..	..	..
	September	·312	·209	·103	·258	0	93·2	73·6	99	69	86·5	89·8	81·9	—0·5	75·5	75·3	..	..	..
	October	·466	·364	·102	·408	—·005	89·5	67·2	99	55	83·5	85·6	77·1	—0·8	69·7	68·8	..	..	..
	November	·604	·501	·103	·542	+·026	85·2	54·5	89	49	79·3	81·4	68·8	—0·1	60·5	61·5	..	..	..
	December	·633	·528	·105	·568	+·004	78·3	51·6	83	43	70·9	73·6	63·0	+1·5	56·4	58·4	..	..	..
	Year	28·402	28·297	·105	28·344	+·018	91·0	66·4	114	37	83·7	87·7	77·5	+0·4	66·2	66·9	..	..	..

TABLE D-1 FOR 1931.

and 17 hrs. (I. S. T.)

Vapour tension in inches of mercury.				Humidity.				Cloud.			Wind direction.										Wind velocity.	
											Total number of 10 hrs. and 17 hrs. winds from											
Mean 10 hrs.	Mean 17 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 17 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 17 hrs.	Mean of two previous columns.	Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Mean wind direction.	Mean velocity in miles per hour.	Departure from normal.
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
·300	·312	·294	+·025	63	48	67	—3	3·8	4·7	4·3	38	1	0	0	6	0	0	5	12	N 60° W	22	—8
·287	·278	·278	—·009	62	47	67	+5	5·6	7·1	6·3	17	6	1	1	5	0	2	9	15	N 52° W	33	—6
·308	·270	·294	—·036	41	30	47	—7	2·4	2·9	2·7	11	1	9	0	4	2	2	10	23	N 47° W	37	—14
·356	·354	·382	—·013	27	22	37	—4	3·1	3·1	3·1	16	0	9	2	4	1	11	4	13	N 67° W	44	—12
·380	·332	·374	—·080	23	17	30	—6	1·1	2·3	1·7	18	2	10	3	7	2	3	4	13	N 1° W	54	—2
·439	·353	·425	—·202	24	16	29	—15	1·2	0·9	1·1	19	2	1	0	4	1	9	5	19	N 74° W	36	—27
·889	·881	·898	+·035	66	57	69	+4	3·2	3·1	3·1	28	3	6	0	12	6	2	0	5	S 57° E	47	—13
·997	·996	1·016	+·132	74	66	79	+8	6·3	5·2	5·7	25	1	14	1	16	1	1	0	3	E	40	—9
·808	·763	·780	+·071	61	50	66	+5	1·8	1·7	1·7	38	1	2	3	5	3	2	1	5	S 45° E	17	—20
·587	·587	·579	+·134	51	45	63	+11	2·0	1·3	1·7	45	0	2	5	3	3	0	0	4	S 82° E	19	—9
·338	·405	·353	+·037	42	45	58	+1	1·4	1·9	1·7	50	1	0	0	2	1	0	3	3	N 79° W	9	—14
·270	·314	·273	+·002	47	47	59	—4	1·8	2·1	1·9	43	1	3	0	3	0	1	3	8	N 41° W	12	—11
·497	·487	·495	+·004	48	41	56	0	2·8	3·0	2·9	348	19	57	15	71	20	33	44	123	..	31	—12
·234	·256	·240	—·028	32	29	44	—12	1·3	2·9	2·1	12	6	4	14	5	6	6	4	5	S 81° E	49	—9
·236	·217	·230	—·032	37	29	46	—1	4·1	4·6	4·3	4	7	4	16	2	6	3	7	7	N 50° E	63	—3
·208	·166	·188	—·117	20	14	28	—11	0·8	1·7	1·3	7	13	5	5	4	4	2	8	14	N 23° W	66	—13
·257	·192	·236	—·097	19	10	24	—6	0·7	1·9	1·3	2	4	2	2	1	4	9	25	11	N 87° W	74	—14
·335	·259	·307	—·141	19	14	26	—9	0·7	2·7	1·7	2	5	1	1	1	2	6	25	19	N 73° W	93	—17
·429	·339	·393	—·263	23	15	28	—24	0·9	1·1	1·0	2	4	1	1	0	0	0	29	23	N 64° W	101	—18
·799	·770	·785	—·049	64	55	68	—8	5·2	5·3	5·3	3	3	3	5	1	1	9	26	11	N 81° W	86	—9
·930	·929	·931	+·115	80	75	85	+7	8·2	7·3	7·7	7	5	10	9	0	6	5	10	10	N 26° W	55	—27
·783	·682	·725	+·033	59	49	67	—2	4·1	4·5	4·3	10	3	8	5	1	2	5	16	10	N 58° W	50	—24
·556	·488	·521	+·119	48	40	58	+12	2·5	1·9	2·2	9	5	6	19	3	3	4	6	7	N 61° E	61	+7
·282	·280	·268	—·029	27	26	41	—6	0·4	0·5	0·5	28	7	1	1	1	2	0	4	16	N 36° W	23	—21
·263	·286	·258	—·009	35	35	48	—5	1·3	1·1	1·2	14	4	11	16	3	1	0	3	10	N 46° E	45	—6
·439	·405	·428	—·042	39	33	47	—6	2·5	3·0	2·7	100	66	56	94	22	37	49	163	143	..	64	—13

MONTHLY AND ANNUAL

Abstract of observations taken at 10 hrs.

Station and height of bar cistern above sea level in feet.	Month.	Pressure (reduced to 32° F. and standard gravity.)					Temperature of Air.								Temperature wet bulb.				Nocturnal radiation temperature.		
		Mean 10 hrs.	Mean 16 hrs.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean maximum.	Mean minimum.	Highest maximum.	Lowest minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.	Mean.	Depression below mean minimum.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Calcutta (Bengal). (21)	January	30·031	29·901	·130	29·956	—·007	81·7	59·8	88	53	73·0	80·4	69·7	+4·5	57·8	63·9	64·9	62·2	53·1	6·7	—0·9
	February	29·994	·871	·123	·924	+·022	83·3	63·4	91	52	74·8	81·4	72·4	+2·1	61·0	65·9	68·1	65·0	56·7	6·7	—0·6
	March	·914	·787	·127	·844	+·043	91·9	70·7	99	62	84·2	90·3	80·4	+1·1	66·3	72·3	71·4	70·0	64·9	5·8	—0·4
	April	·752	·623	·129	·687	—·009	97·2	78·5	103	68	89·3	94·5	87·2	+2·2	75·1	79·9	80·6	78·5	74·1	4·4	0
	May	·652	·542	·110	·599	—·007	94·4	78·8	101	70	89·3	90·5	86·3	+0·6	75·7	81·3	80·9	79·3	76·4	2·4	—0·6
	June	·540	·442	·098	·497	+·003	95·2	81·5	102	76	90·1	91·4	88·0	+3·5	79·2	83·5	83·3	82·0	79·4	2·1	—0·2
	July	·538	·450	·088	·500	+·015	89·1	79·3	93	75	84·8	85·7	83·9	+0·9	78·2	80·9	81·3	80·1	77·5	1·8	—0·1
	August	·486	·384	·102	·437	—·029	89·9	80·3	94	77	85·2	87·1	84·8	+2·4	79·2	81·6	82·5	81·1	78·8	1·5	—0·5
	September	·702	·591	·111	·647	+·010	89·6	79·4	94	75	86·2	85·8	84·2	+1·6	78·5	81·6	81·3	80·5	77·7	1·7	—1·0
	October	·841	·732	·109	·782	—·003	87·0	76·3	93	72	83·2	83·0	81·1	+1·1	75·0	77·8	78·0	76·9	74·1	2·2	—2·2
	November	·979	·867	·112	·919	+·010	81·8	65·8	87	61	77·2	79·5	73·2	+0·8	64·7	69·7	69·8	68·1	60·8	5·0	—1·2
	December	30·017	·899	·118	·947	—·026	78·1	59·2	80	51	71·6	76·2	67·6	+2·3	57·7	63·6	64·8	62·1	52·4	6·8	—0·6
	Year	29·787	29·674	·113	29·728	—·004	88·3	72·7	103	51	82·4	85·5	79·9	+1·9	70·7	75·2	75·6	73·8	68·8	3·9	—0·7
Srinagar (Kashmir). (5,204)	January	25·005	24·918	·087	24·952	—·007	47·8	30·9	56	22	38·2	45·3	37·6	+6·9	29·9	35·9	40·1	35·3	24·0	6·9	—0·3
	February	24·807	·825	·072	·857	—·048	44·7	31·3	53	22	36·9	42·2	36·4	+3·4	30·1	35·2	38·0	34·4	27·2	4·1	—3·1
	March	·956	·865	·091	·906	+·034	61·4	37·2	79	29	51·2	59·2	48·2	+3·1	34·6	45·4	47·9	42·6	30·6	6·6	—1·9
	April	·927	·833	·094	·875	+·023	71·3	46·7	84	39	60·7	68·7	58·0	+2·3	43·9	53·9	56·1	51·3	41·6	5·1	—3·7
	May	·832	·766	·066	·801	+·019	74·6	52·3	88	46	64·4	70·8	62·8	—1·1	49·8	58·0	59·9	55·9	47·5	4·8	—4·7
	June	·746	·670	·075	·709	+·045	84·4	55·0	93	47	73·4	80·3	68·6	—1·3	52·5	63·0	65·2	60·3	48·2	6·8	—3·0
	July	·658	·602	·056	·626	+·023	81·7	61·2	93	53	72·5	78·3	69·7	—3·3	58·8	65·8	67·4	64·0	51·5	9·7	+0·3
	August	·645	·552	·093	·596	—·040	89·5	65·6	97	61	78·3	87·3	75·0	+4·2	62·9	70·3	71·7	68·3	60·0	5·6	—2·3
	September	·795	·701	·094	·747	—·024	85·6	54·9	92	47	72·7	81·7	68·4	+4·4	52·0	63·4	65·9	60·4	48·7	6·2	—4·1
	October	·954	·846	·008	·905	0	75·1	46·6	93	35	62·9	69·6	59·2	+6·0	43·6	55·5	57·1	52·0	40·8	5·8	—4·4
	November	25·031	·927	·104	·974	+·010	62·0	33·1	72	26	49·3	56·3	45·8	+1·8	31·2	44·5	47·4	41·0	29·2	3·9	—6·1
	December	·034	·933	·101	·975	—·014	52·1	26·7	62	19	40·3	49·1	37·6	+1·2	25·0	36·7	42·0	34·5	23·5	3·2	—5·9
	Year	24·873	24·787	·086	24·827	+·002	69·2	45·1	97	19	58·4	65·8	55·6	+1·7	42·9	52·3	54·9	50·0	39·4	5·7	—3

TABLE D-1 FOR 1931—*contd.*

and 16 hrs. (local time).

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind velocity.	
														Total number of 10 hrs. and 16 hrs. winds from												
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Mean wind direction.	Normal mean wind direction.	Mean velocity in miles per diem.	Departure from normal.
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
·460	·475	·410	·465	+·034	89	59	40	64	—6	1·4	1·8	1·6	+0·1	3	8	5	4	1	1	4	11	25	N 43° W	N 30° W	49	+4
·516	·525	·514	·544	+·059	87	61	49	68	+2	2·8	3·3	3·1	+0·9	2	9	5	4	2	3	10	6	15	N 52° W	N 73° W	64	+
·617	·640	·522	·633	—·010	81	55	38	63	—4	2·6	2·0	2·3	+0·1	1	3	0	3	2	6	23	16	8	S 66° W	S 60° W	74	—12
·841	·895	·859	·897	+·100	85	65	54	73	+3	2·5	2·4	2·4	—0·2	3	0	1	0	2	22	27	3	2	S 28° W	S 30° W	131	+8
·853	·60	·925	·922	+·039	93	70	65	76	+1	4·9	4·7	4·8	+0·5	0	0	4	3	2	30	23	0	0	S 11° W	S 9° W	140	+17
·973	1·057	1·081	1·031	+·060	91	75	71	81	—2	5·2	5·7	5·5	—2·0	3	1	0	2	14	25	14	0	1	S 2° E	S 3° W	97	—7
·953	1·001	1·008	·987	+·016	95	84	82	88	+1	9·2	9·5	9·3	+0·7	3	0	0	1	4	13	34	5	2	S 35° W	S 1° W	86	—2
·985	1·027	1·047	1·022	+·055	95	85	82	88	0	8·3	7·9	8·1	—0·6	2	1	3	14	9	13	13	4	3	S 17° E	S 2° E	83	+1
·974	1·016	1·004	1·004	+·052	97	82	82	88	+2	7·0	8·4	7·7	—0·2	4	0	3	15	15	11	9	2	1	S 37° E	S 9° W	57	—14
·862	·883	·891	·899	+·083	93	78	80	87	+5	5·9	7·1	6·5	+1·9	8	7	10	16	4	4	3	0	10	N 54° E	N 18° W	54	+5
·602	·629	·601	·626	+·048	94	67	60	77	+3	3·7	3·2	3·5	+1·0	9	14	3	5	3	0	4	3	19	N 22° W	N 12° W	34	—10
·461	·484	·461	·486	+·048	91	63	52	71	0	1·8	2·3	2·0	+0·2	5	13	4	1	0	0	1	6	27	N 30° W	N 13° W	42	—2
·758	·799	·778	·793	+·049	91	70	63	77	0	4·6	4·9	4·7	+0·1	43	61	38	68	58	128	165	56	113	..	..	76	—1
·152	·189	·190	·176	+·018	86	81	63	77	—7	8·1	7·7	7·9	+0·7	14	6	9	1	8	1	0	5	18	N 14° W	S 21° E	41	—13
·151	·186	·184	·170	—·004	84	85	69	79	—4	8·8	7·9	8·3	+1·7	15	9	2	0	4	4	1	5	16	N 42° W	S 9° W	55	—6
·174	·246	·212	·198	—·057	78	65	45	63	—18	4·8	5·7	5·1	—0·6	9	12	1	3	7	2	1	14	13	N 47° W	N 24° W	58	—36
·259	·343	·311	·283	—·047	80	65	46	64	—14	5·2	6·6	5·9	+0·9	19	5	2	1	3	5	3	11	11	N 78° W	N 18° W	50	—25
·332	·414	·396	·352	—·090	84	70	56	70	—8	5·5	6·5	6·0	+2·0	19	6	2	2	6	1	2	6	18	N 43° W	N 30° E	58	—17
·373	·456	·445	·377	—·158	85	55	44	61	—18	2·4	6·0	4·2	+0·6	16	7	3	1	3	10	3	3	9	S 86° W	N 9° E	49	—17
·472	·560	554	·475	—·164	87	71	58	72	—9	5·4	5·9	5·7	+1·7	30	4	1	1	10	3	1	5	7	S 61° W	N 48° W	40	—29
·546	·651	600	·551	—·062	86	68	48	67	—13	4·4	3·9	4·1	+0·3	32	1	1	1	5	3	1	9	9	N 86° W	N 48° W	35	—28
·361	·482	·458	·404	—·094	83	60	42	61	—19	2·7	4·7	3·7	+0·4	30	3	3	0	3	5	1	7	3	S 28° W	N 38° W	47	—11
·259	·367	·336	·276	—·026	79	63	47	63	—16	3·4	4·2	3·8	+1·1	33	5	2	0	4	1	1	8	8	N 54° W	N 23° W	46	—7
·153	·240	·227	·191	—·042	79	69	52	67	—12	4·1	3·6	3·9	+0·9	27	9	3	1	1	1	0	10	8	N 39° W	N 1° E	39	—6
·121	·179	·187	·155	—·021	79	72	56	68	—13	3·8	4·1	4·0	—1·1	28	7	3	3	2	3	2		6	N 43° W	S 36° E	39	—6
·279	·359	·342	·301	—·062	88	69	52	68	—12	4·9	5·6	5·2	+0·7	272	74	32	14	61	39	16	96	126	..	..	47	—16

MONTHLY AND ANNUAL

Abstract of observations taken at 10 hrs.

Station and height of cistern above sea level in feet.	Month.	Pressure (Reduced to 32° F. and Standard Gravity.)					Temperature of Air.								Temperature Wet Bulb.			
		Mean 10 hrs.	Mean 16 hrs.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean maximum.	Mean minimum.	Highest maximum.	Lowest minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Bombay (Bombay). (37)	January	29·930	29·822	·108	29·881	—·013	80·6	68·9	94	63	77·2	81·5	76·9	+2·4	63·7	63·2	71·7	67·9
	February	·911	·804	·107	·864	—·008	84·1	68·5	88	65	77·2	80·7	75·4	+0·6	63·3	67·6	70·0	67·0
	March	·800	·7·2	·108	·844	+·028	85·9	71·5	91	65	80·4	82·3	77·1	—0·9	67·5	71·8	72·9	70·7
	April	·805	·683	·122	·755	+·004	91·1	78·0	94	73	86·6	87·8	83·5	+1·4	74·1	78·2	78·2	76·9
	May	·763	·667	·096	·726	+·013	92·4	80·7	94	77	87·9	89·5	85·4	+0·8	76·6	79·0	79·7	78·4
	June	·664	·583	·081	·637	+·025	91·1	81·2	95	75	86·9	87·5	85·0	+2·6	77·5	80·1	80·3	79·3
	July	·620	·534	·086	·598	—·013	85·7	76·3	89	73	81·8	81·9	79·5	0	75·0	78·8	78·6	77·5
	August	·611	·535	·076	·583	—·085	85·6	77·0	88	75	81·3	82·2	80·2	+0·8	75·6	77·9	78·2	77·3
	September	·744	·652	·092	·708	—·022	86·4	76·8	89	73	81·9	83·0	80·5	+1·1	74·6	77·3	77·2	76·4
	October	·793	·693	·100	·752	—·034	86·9	75·2	94	71	80·8	82·8	79·7	—1·0	73·0	76·4	77·3	75·6
	November	·888	·783	·105	·844	—·008	90·2	74·3	94	71	81·0	84·5	81·4	+2·1	70·3	73·4	75·3	73·0
	December	·915	·809	·106	·869	—·023	87·3	69·7	93	65	77·3	81·3	77·7	+1·2	65·6	69·0	71·8	68·8
	Year	29·795	29·697	·098	29·755	—·011	87·8	74·8	95	63	81·7	83·7	80·2	+1·4	71·4	74·8	75·9	74·1
Madras (Madras). (2.)	January	29·972	·871	·101	29·919	—·007	84·3	69·0	86	64	80·9	81·0	75·9	+0·6	66·6	72·0	71·5	70·0
	February	·959	·835	·124	·895	—·001	86·4	68·9	90	63	83·1	83·3	76·8	+0·2	67·5	73·4	73·6	71·5
	March	·917	·794	·123	·855	+·020	89·8	72·7	93	69	86·1	85·9	79·6	+0·1	70·5	75·7	75·7	74·0
	April	·810	·691	·119	·758	+·003	92·9	78·7	98	74	89·8	87·9	84·8	+0·7	76·2	79·2	79·7	78·4
	May	·702	·587	·115	·653	—·010	98·2	81·5	106	71	93·4	90·8	88·8	+0·1	76·8	79·8	80·8	79·1
	June	·651	·547	·104	·608	—·021	100·3	82·4	108	75	93·2	93·3	90·1	+1·7	74·6	77·8	80·0	77·4
	July	·702	·592	·110	·658	+·010	94·4	78·6	101	74	88·0	89·3	85·0	—0·7	73·1	76·9	78·8	76·3
	August	·669	·550	·119	·619	—·057	94·8	78·6	99	75	87·8	91·0	85·6	+1·1	73·6	77·0	78·5	76·4
	September	·727	·609	·118	·677	—·030	92·0	77·7	99	75	86·3	87·5	83·8	—0·1	73·8	77·1	78·5	76·5
	October	·807	·686	·121	·752	—·023	90·7	76·5	95	72	85·5	86·8	82·3	+1·5	73·3	77·2	77·6	76·0
	November	·910	·811	·099	·863	+·007	84·2	73·3	87	69	81·1	81·0	77·9	0	71·3	75·7	75·1	74·0
	December	·921	·820	·101	·870	—·040	82·0	72·4	85	63	78·9	79·0	76·4	+0·7	70·2	73·9	73·5	72·5
	Year	29·812	29·699	·113	29·761	—·012	90·8	75·9	108	63	86·2	86·4	82·3	+0·5	72·3	76·3	76·9	75·2

TABLE D-1 FOR 1931—*contd.*

and 16 hrs. (local time).

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind velocity.	
														Total number of 10 hrs. and 16 hrs. winds from												
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Mean wind direction.	Normal mean wind direction.	Mean velocity in miles per diem.	Departure from Normal.
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
·523	·571	·646	·598	+·007	75	61	60	69	—3	0·9	1·3	1·1	0	0	21	9	18	0	0	0	1	13	N 19° E	N 6° E	149	—25
·511	·547	·591	·573	—·046	74	59	57	67	—4	0·3	0·5	0·4	—0·8	0	25	5	10	3	1	0	1	11	N 11° E	N 1° W	175	—8
·618	·666	·682	·682	—·055	80	64	62	73	—2	2·0	2·4	2·2	+0·9	0	21	2	5	2	2	3	4	23	N 22° W	N 36° W	160	—31
·784	·852	·836	·849	+·008	82	67	64	74	—3	1·7	1·0	1·4	—0·2	0	15	0	1	1	3	5	12	23	N 52° W	N 60° W	162	—23
·860	·869	·880	·822	—·007	82	66	63	74	—2	1·5	1·8	1·7	—0·9	0	1	0	0	0	1	8	21	31	N 72° W	N 82° W	136	—41
·893	·937	·937	·938	0	84	74	72	79	—4	5·7	6·1	5·9	—1·2	0	1	1	0	1	6	12	15	24	N 84° W	S 63° W	203	—63
·851	·943	·933	·924	+·003	94	87	86	90	+3	9·3	9·3	9·3	+0·6	0	1	1	1	0	4	17	32	6	S 78° W	S 75° W	210	—130
·866	·911	·910	·904	+·019	94	86	83	88	+1	9·1	9·2	9·2	+0·6	0	1	0	0	1	1	3	44	12	N 84° W	S 81° W	215	—55
·827	·875	·854	·859	—·013	90	81	76	83	—3	7·4	7·3	7·4	+0·5	0	5	0	3	3	1	2	7	39	N 48° W	N 84° W	178	—11
·788	·853	·866	·848	—·004	90	81	78	85	+4	5·5	5·5	5·5	+2·4	0	9	3	11	1	7	10	9	12	N 69° W	N 9° E	163	+4
·692	·721	·753	·747	+·031	81	68	64	75	+2	2·5	2·4	2·5	+0·8	0	14	5	18	6	2	1	1	13	N 37 E	N 18° E	139	—29
·577	·598	·654	·635	—·004	80	64	62	72	0	2·4	2·5	2·5	+0·6	0	15	10	20	5	1	0	0	11	N 42° E	N 15° E	150	—20
·732	·779	·795	·787	—·005	84	71	69	77	—1	4·0	4·1	4·1	+0·3	0	129	36	37	23	29	61	147	218	..	..	170	—36
·622	·663	·644	·661	—·024	88	63	61	74	—5	5·1	4·4	4·7	+0·6	1	19	27	10	0	0	0	1	4	N 32° E	N 51° E	112	+12
·654	·694	·697	·705	—·010	93	62	61	75	—3	3·7	2·6	3·2	0	2	3	9	24	13	3	0	0	2	S	S 84° E	77	—11
·715	·746	·750	·761	—·041	89	60	61	74	—4	2·9	1·2	2·1	—0·1	0	0	2	9	25	21	5	0	0	S 31° E	S 44° E	100	—9
·868	·853	·901	·896	—·004	89	61	68	76	—2	4·2	2·6	3·4	—0·1	2	0	0	7	16	25	9	1	0	S 14° E	S 36° E	128	—5
·860	·834	·912	·882	—·014	80	54	63	65	—5	4·3	4·3	4·3	+0·6	1	0	0	6	10	26	13	6	0	S 3° W	S 9° E	143	—16
·750	·745	·840	·795	—·038	69	48	55	59	—7	5·2	6·5	5·8	—0·4	4	0	1	4	9	12	9	20	1	S 34° W	S 37° W	144	—10
·739	·774	·839	·799	—·013	76	59	61	66	—2	7·6	8·4	8·0	+0·7	4	0	0	2	6	9	18	22	1	S 50° W	S 51° W	113	—26
·760	·782	·808	·792	—·044	78	60	56	66	—7	6·7	8·1	7·4	+0·5	8	0	0	0	5	7	17	25	0	S 54° W	S 36° W	123	+2
·780	·805	·853	·824	—·024	82	65	66	73	—4	6·5	7·5	7·0	+0·7	7	0	0	4	9	4	11	20	5	S 53° W	S 36° W	91	—14
·777	·821	·821	·822	—·034	85	68	65	75	—3	6·8	5·5	6·1	+0·1	10	6	2	2	7	4	9	15	7	S 81° W	N 54° E	88	+4
·740	·815	·793	·803	+·007	90	77	75	84	0	7·5	7·6	7·6	+1·7	7	15	9	10	7	0	2	0	10	N 30° E	N 27° E	101	—13
·710	·770	·750	·762	+·033	89	78	76	83	+1	7·6	7·4	7·5	+2·0	8	26	13	11	0	0	0	0	4	N 26° E	N 24° E	151	+23
·748	·775	·800	·792	—·017	84	63	64	73	—3	5·7	5·5	5·6	+0·6	54	69	63	89	107	111	93	110	34	..	..	114	—5

MONTHLY AND ANNUAL

Abstract of observations taken at 10 hrs.

Station and height of bar cistern above sea level in feet.	Month.	Pressure (Reduced to 32° F. and Standard Gravity).					Temperature of Air.								Temperature Wet Bulb.		Nocturnal Radiation Temperature.	
		Mean 10 hrs.	Mean 16 hrs.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean maximum.	Mean minimum.	Highest maximum.	Lowest minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean	Depression below mean minimum.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Poona (Bombay). (1,834)	January	28·158	28·022	·136	28·088	+·010	87·9	52·6	91	47	76·0	85·7	70·0	+0·7	60·4	62·8	45·1	7·5
	February	·125	27·984	·141	·055	+·006	92·0	56·4	97	51	80·0	89·3	74·2	+0·8	61·5	63·7	48·0	8·4
	March	·101	·963	·138	·035	+·035	95·8	61·0	101	51	85·1	92·4	77·7	−2·1	62·0	64·4	51·5	9·5
	April	·024	·882	·142	27·958	+·017	102·7	71·4	108	63	94·0	99·3	85·3	+1·4	67·7	69·1	62·6	8·8
	May	27·973	·854	·119	·920	+·014	99·4	72·6	106	68	91·6	96·1	84·2	+0·3	68·8	69·9	64·5	8·1
	June	·892	·799	·093	·854	+·023	92·7	75·2	100	72	86·1	87·7	81·7	+2·6	73·4	74·0	71·0	4·2
	July	·861	·797	·064	·828	+·006	81·8	71·5	86	70	78·5	77·3	74·9	−0·5	73·0	72·2	69·3	2·2
	August	·838	·766	·072	·804	−·063	80·7	72·0	85	71	77·3	76·8	74·4	+0·2	72·6	72·1	69·1	2·6
	September	·962	·867	·095	·918	−·010	82·6	69·9	89	65	77·9	78·0	74·1	−0·6	71·7	72·1	66·2	3·7
	October	28·025	·911	·114	·972	−·026	84·6	67·0	91	53	79·8	81·5	74·5	−1·8	70·3	70·6	62·2	4·8
	November	·129	28·008	·121	28·068	+·016	84·7	60·2	88	50	77·5	82·6	72·4	+0·3	66·5	67·9	53·2	7·0
	December	·153	·025	·128	·089	−·005	81·8	53·6	89	46	72·7	79·3	67·7	−0·7	61·3	63·8	47·9	5·7
	Year	28·020	27·907	·113	27·966	+·002	88·9	65·8	108	46	81·3	85·5	75·9	0	67·4	68·5	59·2	6·6
Bangalore (Mysore). (3,021)	January	26·993	26·882	·111	26·935	+·017	82·1	53·8	86	53	72·6	79·6	69·5	+2·0	62·5	63·1	..	..
	February	·981	·849	·132	·912	+·011	89·4	60·0	93	56	78·0	87·6	74·0	+2·0	63·1	62·5	..	..
	March	·967	·828	·139	·897	+·033	93·3	67·1	96	62	83·0	91·1	79·2	+2·5	66·7	66·1	..	..
	April	·896	·765	·131	·837	+·027	95·7	71·6	101	67	85·3	92·9	82·4	+2·5	72·1	69·3	..	..
	May	·842	·728	·114	·792	+·017	95·2	71·0	101	66	84·3	91·4	81·4	+2·9	71·1	70·6	..	..
	June	·800	·704	·096	·759	+·004	87·0	68·5	91	66	78·4	84·6	76·0	+2·0	70·5	71·8	..	..
	July	·808	·717	·091	·771	+·011	84·7	67·1	89	65	76·2	81·3	74·0	+2·0	68·8	69·7	..	..
	August	·787	·695	·092	·750	−·026	84·0	67·5	87	64	76·2	79·9	73·8	+2·0	69·0	70·1	..	..
	September	·836	·727	·109	·789	−·017	83·2	65·9	89	66	76·3	80·2	72·7	+0·9	69·3	70·4	..	..
	October	·892	·773	·119	·834	−·005	84·5	65·9	89	60	77·4	82·0	73·7	+1·9	68·2	68·9	..	..
	November	·942	·842	·100	·891	+·012	80·9	63·5	85	56	74·7	77·6	71·2	+1·6	67·1	67·7	..	..
	December	·944	·845	·099	·896	−·018	78·4	61·2	84	54	71·8	76·1	68·9	+1·4	64·7	65·6	..	..
	Year	26·891	26·780	·111	26·839	+·006	86·5	65·7	102	53	77·8	83·7	74·7	+1·9	67·8	68·0	..	..

TABLE D-1 FOR 1931—*contd.*

and 16 hrs. (local time).

Vapour tension in inches of mercury.				Humidity.			Cloud.				Wind direction.											Wind velocity.	
											Total number of 10 hrs. and 16 hrs. winds from												
Mean 10 hrs.	Mean 16 hrs.	Mean of daily mean.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Mean wind direction.	Normal mean wind direction.	Mean velocity in miles per diem.	Departure from normal.
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
·334	·291	·327	..	37	23	47	..	1·7	2·8	2·3	..	12	4	13	17	9	1	1	3	2	N 77° E	..	38	..
·316	·269	·331	..	31	20	42	..	0·3	1·6	0·9	..	11	1	6	9	4	1	3	7	14	N 18° W	..	47	..
·272	·257	·326	..	22	17	37	..	3·1	4·8	3·9	..	12	2	3	7	5	1	4	16	12	N 70° W	..	56	..
·349	·333	·406	..	22	28	38	..	2·1	3·6	2·9	..	6	11	11	3	3	0	0	5	21	N 12° W	..	66	..
·416	·405	·478	..	29	24	44	..	0·8	1·8	1·3	..	0	8	0	0	0	0	5	15	34	N 56° W	..	123	..
·660	·667	·678	..	54	53	65	..	5·7	7·1	6·4	..	1	0	0	0	0	0	10	30	19	N 83° W	..	141	..
·741	·727	·725	..	77	78	82	..	8·9	9·2	9·1	..	0	0	0	0	0	3	16	32	11	S 82° W	..	99	..
·744	·729	·733	..	80	80	89	..	9·2	8·9	9·1	..	0	0	0	0	0	0	8	35	19	N 82° W	..	99	..
·701	·712	·708	..	74	75	84	..	8·2	8·6	8·4	..	1	1	1	0	2	1	5	28	21	N 77° W	..	99	..
·623	·611	·652	..	63	59	67	..	5·7	6·3	6·0	..	5	5	4	7	3	2	6	16	9	N 78° W	..	47	..
·519	·503	·511	..	55	46	50	..	3·7	4·0	3·8	..	2	2	11	31	13	0	0	0	1	N 33° E	..	29	..
·405	·395	·400	..	51	41	46	..	3·2	3·6	3·4	..	2	3	12	26	16	2	0	0	1	S 89° E	..	47	..
·507	·492	·523	..	50	45	58	..	4·4	5·2	4·8	..	52	37	61	100	60	11	58	137	164	..	..	74	..
·441	·374	·436	+·028	56	38	59	—3	3·0	3·7	3·3	+1·0	1	0	21	37	3	0	0	0	0	N 77° E	N 33° E	95	+2
·304	·252	·355	—·052	42	19	42	—12	1·6	1·9	1·7	0	2	1	8	27	14	1	2	1	0	S 32° E	S 69° E	80	—8
·464	·343	·439	—·008	42	24	43	—7	1·5	3·1	2·3	+1·0	3	3	4	16	9	10	12	4	1	S 7° E	S 36° E	51	—35
·635	·445	·572	+·017	53	30	51	—4	3·5	5·5	4·5	+1·3	5	2	8	13	10	5	5	10	2	S 59° E	S 27° W	71	—13
·606	·506	·584	—·021	53	36	54	—9	4·8	6·4	5·6	+1·3	2	3	4	1	1	2	6	20	18	N 63° W	S 81° W	103	—7
·652	·629	·648	+·025	68	54	71	—3	7·9	7·5	7·7	+0·2	0	0	0	0	0	1	10	43	6	S 36° W	S 72° W	131	—32
·615	·589	·605	—·002	69	56	69	—8	9·1	9·0	9·1	+0·6	0	0	0	0	0	1	17	40	4	S 79° W	S 72° W	171	+3
·621	·620	·630	+·017	69	61	73	—6	9·6	9·1	9·4	+1·1	0	0	0	0	0	0	12	47	3	S 84° W	S 81° W	151	+6
·632	·627	·639	+·016	70	62	74	—6	7·8	8·5	8·1	+0·6	2	4	0	0	0	0	5	37	12	N 80° W	S 84° W	121	—2
·586	·555	·585	—·023	63	52	65	—13	7·2	6·8	7·0	+0·9	0	5	12	3	1	0	9	25	7	N 65° W	N	101	+19
·577	·556	·604	+·065	67	61	77	+2	5·9	7·1	6·5	+1·2	3	1	24	18	8	2	2	1	1	N 76° E	N 60° E	84	—4
·529	·509	·558	+·092	69	58	76	+6	7·2	7·3	7·2	+3·7	0	2	43	17	0	0	0	0	0	N 56° E	N 72° E	104	+8
·563	·502	·555	+·013	60	46	63	—5	5·8	6·3	6·0	+1·0	18	26	124	132	46	22	80	228	54	..	..	105	—5

MONTHLY AND ANNUAL

Abstract of observations taken at 10 hrs. (local time)

Station and height of bar cistern above sea level in feet.	Month.	Pressure (Reduced to 32°F. and Standard Gravity.)					Temperature of Air.								Temperature Wet Bulb.		Vapour Tension in Inches of Mercury.			
		Mean 10 hrs.	Mean 16-17 hrs.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean maximum.	Mean minimum.	Highest maximum.	Lowest minimum.	Mean 10 hrs.	Mean 16-17 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16-17 hrs.	Mean 10 hrs.	Mean 16-17 hrs.	Mean of daily means.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Kodaikanal (Madras) (7,658). Afternoon observations at 16 hrs. (local time.)	January	22·834	22·764	·070	22·798	+·028	63·5	48·3	71	45	60·4	57·5	55·7	+3·2	48·9	52·1	·234	·332	·252	—·004
	February	·855	·784	·071	·813	+·032	69·7	49·9	75	46	66·4	62·2	60·0	+6·4	47·0	53·0	·121	·308	·189	—·073
	March	·867	·798	·069	·824	+·041	69·3	50·3	72	45	65·9	62·9	60·5	+4·3	50·6	54·6	·211	·341	·254	—·014
	April	·833	·765	·068	·798	+·035	69·0	53·0	72	50	66·1	63·1	61·1	+2·2	50·1	58·4	·348	·440	·371	+·032
	May	·803	·737	·066	·767	+·025	70·0	55·7	74	52	67·6	63·6	62·9	+3·2	56·4	58·1	·339	·420	·353	—·026
	June	·753	·695	·058	·724	+·024	66·8	55·1	73	52	64·6	61·6	60·4	+3·5	57·9	58·0	·410	·445	·398	+·022
	July	·751	·694	·057	·721	+·037	63·5	53·2	67	51	61·0	58·7	57·6	+2·4	56·1	56·1	·401	·424	·385	+·018
	August	·788	·671	·067	·707	+·006	62·7	53·7	66	51	60·6	58·2	57·3	+1·8	56·2	56·0	·413	·424	·391	+·011
	September	·761	·697	·064	·728	+·012	63·9	52·7	6	51	61·0	59·6	57·3	+1·9	55·1	56·7	·374	·430	·375	—·005
	October	·802	·727	·075	·778	+·039	63·6	52·5	67	50	60·7	58·3	56·8	+2·0	56·5	56·3	·412	·432	·399	+·021
	November	·815	·741	·074	·782	+·023	61·8	50·1	67	45	58·5	55·9	54·9	+1·4	54·7	54·5	·388	·412	·377	+·031
	December	·797	·723	·074	·761	+·001	59·5	49·4	66	45	56·6	55·2	53·8	+0·7	53·3	52·8	·377	·377	·346	+·070
	Year	22·801	22·733	·068	22·767	+·025	65·3	52·0	75	45	62·5	59·7	58·2	+2·8	54·1	55·5	·336	·399	·341	+·006
Trivandrum (Madras) (197). Afternoon observations at 17 hrs. (I. S. T.)	January	29·690	29·601	·089	29·645	—·018	84·5	75·2	87	71	81·1	83·5	79·1	+2·0	73·7	76·0	·729	·796	·766	+·100
	February	·711	·588	·123	·648	—·001	86·8	74·9	91	71	82·7	85·7	80·0	+1·4	73·5	76·7	·708	·784	·755	+·070
	March	·699	·584	·115	·642	+·015	89·5	78·5	91	72	86·1	87·9	82·4	+2·1	76·9	79·3	·791	·863	·840	+·065
	April	·635	·527	·108	·582	+·002	87·1	79·5	92	75	85·3	83·1	82·3	+0·4	79·0	80·2	·899	·950	·928	+·100
	May	·601	·505	·096	·556	—·015	87·6	80·5	90	75	85·3	86·2	83·0	+1·7	76·8	79·8	·910	·922	·919	+·076
	June	·599	·532	·067	·568	—·010	83·0	76·7	86	75	80·6	81·6	78·7	+0·3	77·5	78·0	·901	·909	·905	+·095
	July	·627	·549	·078	·593	+·002	82·1	75·1	83	71	79·9	80·8	77·1	—0·1	76·4	76·7	·859	·859	·859	+·064
	August	·628	·544	·084	·589	—·010	80·6	74·5	83	72	78·3	79·2	76·4	—1·4	75·9	76·1	·860	·856	·863	+·078
	September	·629	·539	·090	·587	—·029	82·1	75·1	86	72	80·2	80·8	77·5	—0·5	75·5	76·1	·827	·837	·841	+·060
	October	·657	·569	·088	·61.	—·007	85·1	75·9	87	74	82·6	82·3	79·2	+1·5	76·3	75·9	·820	·829	·824	+·038
	November	·668	·579	·089	·624	—·016	84·8	74·4	87	71	81·2	82·2	78·8	+1·1	75·9	76·8	·821	·846	·826	+·045
	December	·653	·563	·090	·608	—·045	83·9	74·6	87	69	79·8	82·4	78·5	+1·1	75·6	76·8	·828	·847	·831	+·123
	Year	29·650	29·557	·093	29·605	—·011	84·8	76·2	92	69	81·9	83·0	79·4	+0·8	76·1	77·4	·329	·858	·846	+·076

TABLE D-1 FOR 1931—*contd.*

and 16 hrs. or 17 hrs. (I. S. T.)

Humidity.				Cloud.				Wind direction.										Wind velocity.	
								Total number of 10 hrs. and 16-17 hrs. winds from											
Mean 10 hrs.	Mean 16-17 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16-17 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	NE.	E.	SE.	S.	SW	W.	NW.	Mean wind direction.	Normal mean wind direction.	Mean velocity in miles per diem.	Departure from normal.
22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
50	72	64	+2	4·3	5·8	5·1	+1·0	1	3	16	15	21	3	0	0	3	S 88° E	N 76° E	134	—35
19	56	43	—18	1·0	3·0	2·0	—1·9	0	3	11	15	19	3	0	1	4	S 85° E	N 60° E	133	—23
33	59	51	—5	1·4	5·4	3·4	—0·4	2	9	18	11	19	1	0	1	1	N 77° E	N 63° E	153	—59
56	75	70	+5	4·2	6·9	5·5	+0·3	0	6	18	10	16	8	0	0	2	N 89° E	N 71° E	124	—79
52	72	68	—4	4·9	7·5	6·2	+0·1	0	13	13	7	13	5	1	1	9	N 52° E	N 27° E	142	—41
68	82	77	—1	6·3	8·8	7·5	—0·2	3	3	1	1	3	1	4	21	23	N 69° W	N 69° W	169	—93
76	86	83	0	8·1	9·4	8·7	+0·6	3	3	1	0	1	7	1	19	22	N 73° W	N 67° W	153	—127
78	88	86	+2	8·3	9·4	8·9	+1·0	1	1	0	0	0	1	0	32	27	N 69° W	N 58° W	212	—17
70	85	82	—2	5·1	8·6	6·9	—0·9	4	5	3	2	5	3	2	10	26	N 52° W	N 56° W	150	—54
78	89	93	+7	6·8	8·2	7·5	0	5	12	6	12	4	4	1	3	15	N 14° E	N	117	—71
80	92	91	+8	7·3	9·1	8·2	+0·9	1	6	11	13	19	6	2	1	1	S 79° E	N 21° E	168	—35
85	87	89	+23	7·2	8·1	7·7	+2·6	0	15	19	6	15	5	1	1	2	N 63° E	N 64° E	191	—25
62	79	75	+2	5·4	7·5	6·5	+0·3	25	79	117	92	135	47	12	90	135	..	..	162	—55
69	70	81	+7	2·1	4·4	3·3	—0·7	22	2	2	4	0	4	24	4	0	S 42° W	..	83	+13
65	64	77	+4	2·3	1·4	2·1	—2·0	23	2	2	1	0	3	16	9	0	S 59° W	..	116	+35
63	66	77	+1	3·1	4·5	3·8	—1·3	10	2	1	0	3	3	26	15	2	S 59° W	.	116	+20
75	76	85	+6	6·2	8·4	7·3	+1·0	7	8	2	2	2	1	15	22	3	S 84° W	..	120	+17
75	75	84	+1	7·1	8·3	7·7	+0·5	2	10	2	0	1	1	7	27	12	N 71° W	..	166	+42
87	84	93	+7	8·5	9·6	9·1	+1·1	1	12	1	0	0	1	9	22	14	N 68° W	..	152	+29
84	82	91	+4	8·8	8·6	8·7	+1·0	1	14	0	0	0	0	2	31	14	N 62° W	..	155	—3
89	86	96	+10	9·2	9·4	9·3	+1·4	2	7	0	0	0	0	3	28	22	N 66° W	..	152	+3
81	80	90	+6	7·8	8·3	8·1	+1·0	0	16	0	0	0	0	3	25	16	N 57° W	..	172	+30
74	75	84	—1	6·1	6·1	6·1	—1·2	4	6	1	0	0	3	3	21	24	N 65° W	..	142	+54
78	78	87	+3	7·3	8·6	7·9	+1·1	23	1	4	1	8	2	16	4	1	S 25° W	..	79	+18
83	77	88	+10	7·1	8·3	7·7	+2·6	27	3	3	0	2	1	13	7	6	S 83° W	..	78	+13
77	76	86	+5	6·3	7·2	6·7	+1·2	122	83	18	8	16	19	137	215	114	..	..	128	+23

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Abstract of observations taken at 10 hrs.

Station and Height of bar cistern above sea level in feet.	Month.	Pressure (reduced to 32° F. and standard gravity)					Temperature of Air.								Temperature Wet Bulb.		"Vapour tension" in inches of mercury.	
		Mean 10 hrs.	Mean 17 hrs.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean maximum.	Mean minimum.	Highest maximum.	Lowest minimum.	Mean 10 hrs.	Mean 17 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 17 hrs.	Mean 10 hrs.	Mean 17 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Peshawar (N.-W. F. P.). (1,164)	January	28·918	28·820	·098	28·859	—·006	64·1	41·9	74	16	56·4	61·5	51·1	+1·4	48·3	51·7	·221	·255
	February	·881	·800	·081	·832	+ 014	60·9	40·3	70	33	52·3	57·1	49·5	—3·8	46·1	48·4	·232	·231
	March	·801	·703	·098	·746	+·022	79·3	50·8	93	39	70·8	76·7	64·4	+1·1	56·1	59·0	·255	·263
	April	·658	·548	·105	·597	—·013	91·3	66·9	100	53	83·9	88·0	77·2	+3·7	63·5	64·8	·350	·323
	May	·516	·429	·087	·470	+·009	95·2	69·3	103	58	88·0	89·6	82·0	—2·0	66·4	67·5	·377	·395
	June	·388	·291	·097	·33	+·033	104·8	76·6	111	67	96·9	102·2	90·3	—0·9	70·1	71·8	·392	·379
	July	·318	·213	·105	·264	—·008	102·2	78·7	112	72	92·5	99·1	89·6	—0·7	75·3	75·1	·649	·541
	August	·320	·190	·130	·250	—·002	102·8	83·7	109	75	93·6	101·1	92·4	+4·8	80·4	79·3	·845	·732
	September	·523	·403	·120	·455	—·044	97·3	74·0	101	69	88·9	95·2	84·7	+2·6	72·6	73·3	·588	·548
	October	·739	·635	·104	·677	—·013	89·7	62·8	99	51	79·9	83·3	74·9	+3·5	66·2	67·1	·464	·446
	November	·869	·770	·099	·810	—·005	79·3	49·7	87	44	69·7	74·3	62·5	+3·4	55·7	58·4	·262	·269
	December	·917	·822	·095	·859	—·023	71·2	41·5	80	36	60·2	64·7	54·1	+3·0	49·0	52·3	·202	·222
	Year	28·654	28·552	·102	·596	—·011	86·5	61·1	112	33	77·8	82·7	72·7	+1·2	62·5	64·1	·403	·384
Quetta (Baluchistan) (5,407)	January	24·748	24·664	·084	24·695	+·024	52·2	29·9	66	22	44·1	49·1	40·4	+0·8	38·9	40·3	·152	·177
	February	·698	·642	·056	·663	+·008	45·1	29·2	57	19	37·9	42·1	36·9	—5·3	33·6	36·8	·143	·157
	March	·746	·709	·043	·720	+·085	65·0	37·3	80	28	56·6	62·4	51·4	—1·2	44·4	45·9	·152	·126
	April	·698	·625	·073	·654	+·047	77·3	48·7	85	41	69·7	73·5	63·6	+2·7	53·1	54·1	·227	·210
	May	·616	·554	·062	·578	+·016	83·0	54·0	92	44	76·2	80·7	68·6	+0·6	53·9	55·0	·159	·136
	June	·557	·429	·068	·518	+·068	90·7	59·3	97	51	86·8	88·6	74·2	+0·1	57·4	57·9	·187	·151
	July	·446	·375	·073	·412	+·013	94·7	66·2	100	56	86·2	92·4	80·1	+1·8	61·5	60·0	·273	·165
	August	·470	·379	·091	·424	—·029	93·8	67·0	103	55	88·0	96·0	82·2	+6·9	62·7	62·7	·301	·200
	September	·633	·552	·081	·586	+·019	87·4	51·2	95	44	78·2	85·5	68·9	+1·8	53·0	54·3	·131	·081
	October	·764	·684	·080	·714	+·017	76·4	41·2	90	25	66·9	73·9	58·8	+2·3	47·0	48·3	·116	·066
	November	·792	·741	·051	·757	+·020	67·0	32·4	73	26	57·2	64·6	49·2	+1·2	42·0	45·1	·104	·089
	December	·835	·751	·084	·781	+·059	55·3	26·5	67	17	46·1	53·1	40·0	+2·3	36·3	39·4	·115	·096
	Year	24·667	24·597	·070	24·625	+·002	74·4	45·2	103	17	66·2	71·8	59·5	—0·6	48·7	50·0	·172	·137

TABLE D-1 FOR 1931—*contd.*

(local time) and 17 hrs (I. S. T.).

Humidity.		Cloud.			Wind direction.										Wind velocity	
					Total number of 10 hrs. and 17 hrs. winds from											
Mean 10 hrs.	Mean 17 hrs.	Mean 10 hrs.	Mean 17 hrs.	Mean of two previous columns.	Calm.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Mean wind direction.	Mean velocity in miles per diem.	Departure from normal.
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
52	48	7·0	6·0	6·5	29	3	3	14	7	4	1	1	0	S 77° E	35	—9
55	47	6·8	7·2	7·0	17	11	7	6	4	2	1	1	7	N 25° E	45	—11
37	31	4·9	5·7	5·3	25	11	3	6	8	1	3	1	4	N 47° E	43	—20
29	24	5·5	6·9	6·2	18	7	10	9	5	1	1	3	6	N 41° E	64	—6
29	27	5·4	6·6	6·0	11	18	7	12	5	1	0	2	6	N 32° E	61	—19
23	19	2·2	4·8	3·5	14	11	14	3	6	0	2	5	5	N 21° E	62	—15
44	30	3·7	4·8	4·3	9	11	17	10	7	2	2	1	3	N 53° E	62	—10
55	35	2·7	4·7	3·7	5	16	23	11	1	3	1	0	2	N 42° E	58	—5
43	35	2·3	4·8	3·5	9	18	15	12	1	1	1	1	2	N 37° E	48	—1
45	40	2·7	4·1	3·4	21	12	10	2	6	1	1	3	6	N 18° E	45	+6
37	34	4·2	5·0	4·6	32	7	2	4	9	2	2	0	2	N 89° E	34	—1
39	38	4·3	4·6	4·5	38	3	2	2	9	2	1	0	5	S 79° E	37	—3
41	34	4·3	5·4	4·9	228	128	113	91	68	20	16	18	48	..	49	—8
48	48	5·6	8·7	7·1	17	4	0	4	6	15	0	6	10	S 30° W	112	+61
64	59	6·8	8·3	7·5	9	4	5	1	3	9	4	9	7	S 53° W	112	+51
34	21	3·5	4·5	4·0	17	5	2	1	5	6	7	11	3	S 31° W	77	+7
33	27	5·1	6·1	5·6	17	5	0	0	3	9	2	20	4	S 79° W	96	+35
17	15	2·7	4·7	3·7	4	4	0	0	0	7	6	30	11	N 80 W	138	+80
16	11	1·4	2·4	1·9	5	9	2	1	0	5	4	21	13	N 69° W	119	+66
22	12	0·7	2·9	1·8	11	5	2	5	0	9	4	19	7	S 88° W	120	+64
22	12	2·2	3·1	2·7	12	3	3	2	3	3	2	27	7	N 83° W	115	+93
13	7	0·7	1·5	1·1	12	6	0	0	0	3	0	29	10	N 74° W	91	+52
16	8	0·1	0·5	0·3	19	3	0	0	1	2	0	29	8	N 79°W	87	+53
21	15	2·0	3·6	2·8	20	4	2	1	2	4	0	19	8	N 75° W	46	+11
37	24	3·2	3·4	3·3	10	5	0	0	8	18	0	14	5	S 39° W	96	+56
29	22	2·8	4·1	3·5	153	57	16	15	36	90	29	234	98	..	101	+59

MONTHLY AND TABLE.

Abstract of observations taken at 10 hrs

Station and height of bar-cistern above sea-level in feet.	Month.	Pressure (Reduced to 32°F. and Standard Gravity.)					Temperature of Air.								Temperature Wet Bulb.				Vapour Tension in Inches of Mercury.				
		Mean 10 hrs.	Mean 16 hrs.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean maximum.	Mean minimum.	Highest maximum.	Lowest minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Katmandu (Nepal). (4,388)	January						67·0	36·6	72	29	50·8	63·1	51·1	+1·5	..	46·1	52·1	..	..	·258	·261	..	..
	February						65·9	39·5	75	30	53·4	61·7	52·5	0	..	47·6	51·0	..	..	·265	·253	..	..
	March						76·9	45·6	88	38	66·6	73·4	61·6	+0·8	..	54·3	58·9	..	..	·273	·331	..	..
	April						88·9	53·5	94	46	77·0	84·9	71·8	+4·7	..	62·0	(a) 64·5	..	..	·381	(a) ·378	..	..
	May						85·1	60·5	93	53	77·5	81·0	72·9	+2·1	..	65·1	66·8	..	..	·471	·497	..	..
	June						88·0	65·1	94	59	80·9	85·1	75·7	+1·8	..	69·1	70·6	..	..	·567	·588	..	..
	July						83·1	68·4	87	65	77·3	78·4	75·3	+0·2	..	71·1	72·5	..	..	·687	·740	..	..
	August						86·2	69·3	90	66	79·4	82·0	77·2	+2·7	..	73·0	75·3	..	..	·734	·790	..	..
	September						81·0	66·7	88	65	75·3	77·8	73·9	+0·7	..	69·6	71·9	..	..	·668	·713	..	..
	October						82·7	60·2	88	52	70·8	79·2	71·5	+4·6	..	64·9	69·4	..	..	·546	·591	..	..
	November						74·7	47·8	85	41	57·4	69·7	60·8	+3·0	..	53·6	59·9	..	..	·371	·401	..	..
	December						67·8	39·0	73	33	48·7	63·9	52·5	—0·1	..	46·3	53·9	..	..	·281	·302	..	..
	Year						79·0	54·3	94	29	67·9	75·0	66·4	+1·8	..	60·2	63·9	..	..	·459	·487	..	..
Seychelles Indian Ocean). (15).	January	29·881	29·799	·082	29·851	+·003	33·9	73·7	86	71	81·6	81·3	77·6	—0·9	72·8	76·8	76·8	75·5	·797	·858	·865	·858	+·025
	February	·882	·787	·095	·842	—·010	84·6	75·5	87	72	82·2	82·0	79·0	—0·1	74·1	78·0	77·9	76·7	·818	·903	·903	·898	+·056
	March	·899	·804	·095	·857	+·029	85·1	76·0	87	73	83·6	83·8	79·5	+0·6	74·6	77·6	78·0	76·7	·846	·876	·876	·893	+·032
	April	(c) ·880	·798	·082	(c) ·842	+·013	(c) 87·9	(c) 75·7	90	74	(c) 86·1	85·6	(c) 80·5	+1·1	(c) 74·3	(c) 78·7	78·6	(c) 77·2	(c) ·818	(c) ·887	·894	(c) ·891	+·028
	May	·884	·802	·082	·844	—·020	86·6	77·1	88	71	84·7	85·5	80·5	+1·0	75·1	78·9	78·9	77·6	·839	·908	·901	·896	+·050
	June	·908	·838	·070	·875	+·005	83·2	75·1	85	71	81·8	81·9	78·0	+0·4	73·0	76·3	75·4	75·2	·783	·821	·821	·824	+·043
	July	·899	·828	·071	·865	—·051	82·0	74·5	83	71	80·5	81·1	77·0	+0·6	71·8	75·5	75·1	74·1	·750	·799	·785	·793	+·042
	August	·933	·851	·082	·895	—·001	81·2	73·5	83	71	79·3	79·8	75·8	—0·8	70·5	73·3	73·7	72·5	·717	·729	·757	·742	—·005
	September	·924	·842	·082	·891	—·012	82·8	75·6	84	72	81·3	81·6	77·9	+0·2	72·1	75·5	75·6	74·4	·736	·785	·815	·786	+·019
	October	·941	·852	·089	·907	+·029	83·9	75·0	85	71	81·9	82·4	78·1	+0·4	72·7	76·1	76·3	75·0	·776	·815	·815	·815	+·021
	November	·886	·797	·089	·855	—·010	84·9	72·7	87	70	82·5	82·5	77·4	—0·2	71·6	75·6	75·9	74·4	·770	·801	·808	·818	—·018
	December	·896	·804	·092	·860	+·001	82·1	72·4	86	70	79·4	79·4	76·2	—1·7	71·9	75·7	(g) 75·7	74·4	·777	·848	(g) ·842	·847	+·015
	Year	29·901	29·817	·084	29·865	—·002	84·0	74·7	90	70	82·1	82·2	78·1	0	72·9	76·5	76·6	75·3	·786	·836	·840	·838	+·026

Barometer out of order.

(c) Mean of 29 days. (g) Mean of 25 days.

TABLE D-I FOR 1931—*concld.*

and 16 hrs. (local time).

HUMIDITY.					CLOUD.				WIND DIRECTION.											Wind velocity.		Rainfall.		Rainy days.
									Total number of 10 hrs. and 16 hrs. winds from															
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	NE.	E.	SE.	S.	SW.	W.	NW.	Mean wind direction.	Normal mean wind direction.	Mean velocity in miles per diem.	Departure from normal.	Rainfall.	Departure from normal.	Actual.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
..	71	45	..	..	(g) 2·5	1·8	(g) 2·7	—0·7	0	30	3	2	1	1	5	9	11	N 24° W	N 78° W	22	+7	0	—0·99	0
..	64	46	..	..	5·6	5·2	5·4	+1·9	0	15	3	10	2	2	1	11	12	N 18° W	N 87° W	29	+8	1·75	+0·89	5
..	42	40	..	..	3·0	3·9	3·5	+0·2	0	8	1	17	1	4	3	20	8	N 52° W	N 82° W	24	+1	0·68	—0·41	2
..	41	(c) 31	..	..	0·8	3·8	2·3	—1·7	0	5	0	14	2	2	1	27	9	N 69° W	N 87° W	28	+2	1·69	—0·25	3
..	50	47	..	..	4·3	5·6	4·9	—0·3	0	17	5	11	1	1	0	19	8	N 21° W	S 89° W	37	+6	6·40	+2·39	8
..	54	48	..	..	4·2	5·6	4·9	—1·3	0	15	5	10	1	4	2	13	10	N 20° W	N 87° W	26	+3	7·96	—1·26	11
..	74	75	..	..	8·6	7·7	8·1	+1·3	0	16	6	18	5	3	1	8	5	N 39° E	S 63° W	21	+6	13·16	—1·75	22
..	73	74	..	..	7·7	7·5	7·6	+0·5	0	24	3	15	5	1	2	10	2	N 20° E	N 66° W	18	+5	17·82	+3·16	21
..	76	75	..	..	8·1	6·8	7·5	+1·2	0	19	0	17	0	7	1	11	5	N 7° E	N 87° W	20	+8	6·85	—0·50	15
..	72	60	..	..	(b) 3·5	3·8	(b) 3·7	+0·3	0	16	0	15	1	7	0	15	8	N 20° W	S 86° W	17	+5	3·47	+1·18	3
..	77	55	..	..	(g) 3·8	4·2	(g) 4·2	+1·6	0	15	1	13	1	2	0	19	9	N 29° W	N 81° W	20	+10	0·24	+0·09	1
..	83	51	..	..	..	3·0	..	..	1	12	2	12	2	2	0	14	17	N 27° W	N 72° W	23	+7	0	—0·31	0
..	65	54	..	..	4·7*	4·9	5·0*	+0·5	1	192	29	154	22	36	16	176	104	..	..	24	+6	60·02	+2·24	91
95	79	81	88	+4	7·3	7·2	7·3	+0·3	6	6	3	6	1	1	1	9	29	N 39° W	N 36° W	134	+27	11·16	—5·93	16
93	83	83	89	+6	6·1	7·7	6·9	+0·4	4	13	12	4	2	1	1	6	13	N 4° W	N 21° W	83	—24	13·68	+6·08	14
93	75	75	85	+2	6·2	5·8	6·0	—0·7	3	13	8	2	0	0	0	9	27	N 28° W	N 17° W	115	+29	1·60	—8·31	5
(c) 93	(c) 70	72	(c) 81	+1	(c) 5·1	4·8	(c) 5·0	—0·1	9	3	7	20	13	2	1	1	3	(x) S 87° E	N 8° E	77	—5	2·52	—4·83	8
91	76	74	82	+2	5·1	4·6	4·9	—0·2	0	0	1	32	25	4	0	0	0	S 67° E	S 43° E	183	+63	9·66	+3·59	10
90	77	77	83	+4	7·1	7·3	7·2	+0·1	0	0	1	14	30	10	5	0	0	S 43° E	S 27° E	245	+57	4·31	—0·49	9
88	78	74	81	+3	6·3	6·0	6·1	+0·5	0	0	0	29	30	2	1	0	0	S 64° E	S 33° E	274	+63	2·22	—0·19	5
86	74	74	79	+1	5·7	5·7	5·7	—0·7	0	0	0	21	33	8	0	0	0	S 55° E	S 35° E	299	+68	1·36	—1·20	4
84	74	75	80	0	5·2	5·2	5·2	—0·4	0	0	0	20	30	8	2	0	0	S 52° E	S 40° E	276	+66	0·14	—4·72	0
88	75	75	81	0	6·2	5·4	5·8	—0·4	5	1	0	16	23	10	6	0	1	S 43° E	S 39° E	194	+55	3·41	+3·63	6
95	71	73	83	0	5·4	5·4	5·4	—1·5	20	2	4	6	10	5	2	2	9	S 70° E	S 56° E	81	—12	5·78	—4·63	8
97	84	(g) 82	90	+7	8·5	8·6	8·6	+1·8	11	4	2	2	3	0	1	4	35	N 41° W	N 44° W	128	+19	33·21	+18·77	26
91	76	76	83	+2	6·2	6·1	6·2	0	58	42	33	172	200	51	20	31	117	..	..	174	+34	99·05	+1·77	111

(b) Mean of 30 days. (g) Mean of 15 days. (q) Mean of 15 days. *Mean of 11 months. (c) Mean of 29 days. (x) 1 Wind less.

Table D-2.—Abstract of observations taken at 4 hrs. and 14 hrs. (G. M. T.) at 15 Stations in Persia and the adjoining areas in the year 1931.

MONTHLY AND ANNUAL

Abstract of observations taken at 4 and 14 hrs. (G. M. T.)

Station and Height of barometer cistern above sea-level in feet.	Month.	Pressure (reduced to 32° F. and standard gravity).		Temperature of Air.								Temperature wet bulb.		Vapour-tension in inches of mercury.		Humi
		Mean 4 hrs.	Mean 14 hrs.	Mean maximum.	Mean minimum.	Highest maximum.	Date.	Lowest minimum.	Date.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Bahrein (8)	January	30·051	30·019	69·6	59·3	82·0	18th	48·3	25th	61·2	65·5	59·3	61·0	·485	·483	89
	February	·012	29·972	67·5	59·6	80·1	26th	52·7	3rd	61·0	64·5	59·2	62·1	·487	·531	90
	March	29·937	·956	75·5	63·7	93·0	20th	52·3	10th	66·5	70·4	64·9	67·9	·596	·650	91
	April	·865	·927	82·1	70·3	97·8	28th	64·8	2nd	73·7	77·3	71·3	72·7	·724	·750	89
	May	·780	·740	90·1	78·2	103·8	26th	73·2	6th	82·6	85·5	76·1	77·8	·803	·852	78
	June	·623	·586	96·6	83·5	100·3	29th	76·0	21st	89·0	92·9	81·1	82·3	·954	·948	72
	July	·467	·423	101·4	85·5	110·0	12th	77·9	1st	91·9	95·8	81·7	84·1	·955	1·007	64
	August	·466	·424	100·3	84·7	108·0	29th	78·3	29th	90·1	95·1	80·8	84·3	·925	1·028	66
	September	·676	·633	98·1	83·2	103·8	4th	73·1	23rd	88·5	93·3	81·5	84·0	·979	1·037	73
	October	·903	·866	87·4	74·7	94·1	2nd	66·3	29th	79·1	83·0	73·5	75·8	·750	·794	76
	November	30·031	·980	80·6	68·8	85·4	22nd	63·5	19th	71·7	76·3	69·1	71·6	·674	·707	86
	December	·136	30·093	69·2	57·0	87·6	6th	47·9	27th	59·4	64·8	55·7	60·4	·391	·467	79
	Year	29·833	29·794	84·9	72·4	110·0	12th July	47·9	27th Dec.	76·2	80·4	71·2	73·7	·727	·771	79
Bushire (14)	January	30·047	30·012	66·5	55·1	79·3	2nd	42·8	23rd	57·4	64·2	54·7	59·7	·401	·462	82
	February	·028	29·975	65·0	54·3	76·5	26th	45·0	2nd	56·9	63·4	54·5	59·3	·394	·464	84
	March	29·995	·963	73·0	60·6	89·9	27th and 29th	52·0	9th	66·8	70·1	59·6	64·2	·421	·515	70
	April	·867	·830	(c) 81·0	68·3	92·7	29th	60·0	1st	72·4	77·1	66·4	70·2	·558	·639	71
	May	·764	·705	87·8	75·8	99·7	7th	69·4	20th	80·4	84·4	71·7	74·9	·669	·742	64
	June	·591	·544	92·5	81·5	104·3	14th	74·0	21st	86·6	90·4	77·1	80·5	·801	·924	65
	July	·420	·378	94·6	84·6	99·1	25th	79·8	11th	88·8	93·8	81·4	84·9	·969	1·083	72
	August	·422	·380	95·4	84·3	102·9	19th	81·0	14th and 30th	89·1	93·4	80·9	84·9	·943	1·086	69
	September	·654	(c) ·601	(c) 95·2	81·3	104·0	7th	75·0	26th	85·9	(c) 91·9	79·8	(c) 85·5	·917	(c) 1·133	74
	October	·872	(b) ·824	(b) 85·0	70·1	91·1	2nd	64·0	28th	74·8	(b) 83·2	68·8	(b) 76·3	·607	(b) ·816	70
	November	30·063	(c) ·962	(c) 77·5	63·6	85·7	3rd	54·0	30th	67·4	(c) 74·9	60·5	(c) 67·9	·436	(c) ·579	65
	December	(c) ·104	(c) 30·053	(c) 66·7	(c) 52·8	80·9	5th	37·0	28th	(c) 55·5	(c) 63·6	(c) 51·1	(c) 57·8	(c) ·318	(c) ·407	(c) 72
	Year	29·814	29·769	81·8	69·3	104·9	7th Sept.	37·0	26th Dec.	73·5	79·1	67·1	72·2	·619	·737	71

(b) Mean of 30 days.

(c) Mean of 29 days.

TABLE D-2 FOR 1931.

at 15 stations in Persia, etc.

DITY.	CLOUD.		WIND DIRECTION.																			WIND VELOCITY.	RAINFALL.			
			Total number of 4 hrs. winds from									Mean wind direction at 4 hrs.	Total number of 14 hrs. winds from									Mean wind direction at 14 hrs.	Mean daily velocity in miles per hr.	Total rainfall.	Number of rainy days.	Heaviest rainfall.	Date.
Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Calm.	N	NE	E	SE	S	SW	W	NW		Calm.	N	NE	E	SE	S	SW	W	NW						
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
76	3·3	3·6	4	2	1	1	5	1	1	9	7	N 76° W	0	10	1	4	7	0	0	1	8	N 16° E	9·7	1·24	1	1·17	6th
87	6·3	6·0	3	11	0	1	2	2	1	4	4	N 28° W	2	13	2	3	2	0	0	0	6	N 5° E	9·7	2·73	7	1·02	9th
87	3·4	2·5	7	9	1	1	5	0	1	1	6	N 4° W	0	16	4	7	2	0	0	0	2	N 23° E	11·0	0	0	0	..
79	7·3	5·8	3	12	3	3	0	4	0	2	3	N 5° E	0	14	6	7	1	0	0	0	2	N 29° E	9·4	0·53	2	0·25	14th
69	3·6	2·4	2	12	2	0	1	0	2	4	8	N 28° W	0	15	5	3	2	0	0	0	6	N 10° E	9·8	0	0	0	..
62	0	0·2	4	5	1	0	0	0	1	11	8	N 57° W	0	16	8	2	0	0	0	0	4	N 11° E	10·2	0	0	0	..
60	0·7	0·3	1	3	0	0	0	0	6	13	8	N 79° W	0	18	8	0	0	0	0	0	5	N 4° E	9·5	0	0		..
63	0·3	0·3	2	2	0	0	0	0	7	12	8	S 88° W	0	16	6	3	1	0	0	0	5	N 11° E	9·7	0	0	0	..
67	0·5	0	5	3	1	0	4	2	2	9	4	N 88° W	2	15	5	7	0	0	0	0	1	N 27° E	7·9	0	0	0	..
71	0·5	0·5	1	5	1	0	0	0	3	10	11	N 57° W	0	16	6	1	0	0	0	0	8	N 1° W	10·7	0	0	0	..
28	3·3	3·1	8	5	1	0	2	1	3	4	6	N 57°W	1	15	2	7	4	0	0	0	1	N 36° E	9·9	0	0	0	..
77	2·1	2·3	0	3	0	0	3	2	3	15	5	N 36° W	0	9	1	1	4	0	0	2	14	N 24° W	(c) 11·8	0·05	0	0·04	28th
73	2·6	2·3	40	72	11	6	22	12	30	94	78	..	5	173	54	45	23	0	0	3	62	..	9·9	4·55	10	1·17	6th Jan.
75	4·5	3·8	2	8	12	4	3	0	0	1	1	N 30° E	1	5	1	1	7	0	0	1	15	N 23° W	5·3	3·35	8	1·02	6th
77	4·1	4·5	3	6	6	7	3	0	0	0	3	N 48° E	2	0	1	1	5	1	0	0	18	N 42° W	4·6	3·45	5	1·95	13th
74	2·0	1·0	5	6	5	7	3	1	0	0	4	N 47°E	1	0	0	0	4	3	3	2	18	S 73° W	7·8	0	0	0	..
71	3·1	3·7	3	4	3	3	4	0	2	3	8	N 15° W	0	1	2	0	3	1	4	6	13	N 69° W	6·0	0·12	1	0·12	22nd
63	0·9	0·8	0	3	5	2	3	0	0	3	10	N 16° W	0	0	1	0	4	0	4	7	19	N 63° W	7·5	0	0	0	..
65	0	0	4	3	5	0	1	0	0	2	15	N 27° W	0	0	0	0	1	0	2	8	19	N 61° W	7·2	0	0	0	..
69	0	0	7	2	3	2	1	0	3	1	12	N 35° W	0	0	0	0	0	0	12	7	12	W	6·1	0	0	0	..
69	0	0	2	0	4	7	2	0	1	0	15	N	0	0	0	0	0	0	6	15	10	N 84° W	6·2	0	0	0	..
(c) 75	0	(c) 0	3	2	3	5	4	0	1	0	7	N 41° E	0	0	0	0	0	2	5	7	15	(a) N 77° W	4·7	0	0	0	..
(b) 72	0	(b) 0	4	3	9	5	2	0	0	0	3	N 35° E	0	0	0	0	0	0	1	5	24	(b) N 53° W	5·2	0	0	0	..
(c) 68	3·6	(c) 3·6	2	6	11	6	2	0	0	0	3	N 42° E	0	1	2	0	3	1	1	2	19	(c) N 46° W	(c) 8·3	0·10	1	0·10	27th
(c) 68	(c) 1·3	(f) 2·2	0	3	13	3	3	0	0	0	2	N 36° E	0	3	0	0	0	2	1	1	20	(e) N 44° W	(c) 1·5	0·08	0	0·08	8th
71	1·7	1·7	35	61	84	51	31	1	7	10	83	..	4	10	7	2	23	10	39	61	202	..	7·5	7·10	15	1·95	13th Feb.

(e) Mean of 27 days.

(f) Mean of 26 days.

MONTHLY AND ANNUAL

Abstract of observations taken at 4 and 14 hrs. (G. M. T.)

Station and height of barometer above sea-level in feet.	Month.	Pressure (reduced to 32° F. and standard gravity.)		Temperature of Air.								Temperature wet bulb.		Vapour-tension in inches of mercury.		Humi
		Mean 4 hrs.	Mean 14 hrs.	Mean maximum.	Mean minimum.	Highest maximum.	Date.	Lowest minimum.	Date.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Henjan (100)	January	29·930	29·874	72·1	62·2	78·7	19th	54·6	23rd	63·7	68·4	59·5	61·8	·459	·469	77
	February	·914	·856	69·8	60·5	75·7	27th	54·0	24th	62·8	66·3	58·8	59·6	·451	·427	78
	March	·873	·807	73·9	66·3	93·2	30th	60·0	2nd and 17th	69·7	73·9	65·8	66·8	·584	·549	80
	April	·741	·680	87·4	70·7	95·6	12th	70·0	2nd	78·8	80·7	71·3	71·6	·663	·662	70
	May	·613	·540	90·8	77·7	102·0	18th	68·6	8th	82·8	85·4	76·5	76·3	·843	·773	74
	June	·487	·401	97·1	82·0	104·0	22nd and 26th	79·0	1st, 8th and 18th	86·4	89·9	80·8	81·1	·977	·936	77
	July	·353	·262	96·9	84·8	103·4	27th	63·1	12th	89·2	92·2	84·5	83·7	1·120	1·045	81
	August	·355	·270	98·0	87·1	102·2	21st	83·1	3rd	91·5	92·9	85·3	84·2	1·127	1·048	77
	September	·584	·506	96·5	84·6	101·2	4th	82·3	21st and 30th	90·4	90·9	83·5	83·4	1·053	1·043	75
	October	(b) ·782	·706	90·1	(b) 73·9	94·6	4th	70·4	31st	(b) 84·1	85·2	(b) 75·1	76·9	(b) ·745	·800	(b) 66
	November	·920	·845	83·7	70·6	87·7	4th	68·5	4th	74·9	78·3	70·7	70·0	·688	·621	79
	December	(b) ·991	·914	75·8	(b) 62·4	83·2	1st	54·7	10th	(b) 66·1	70·9	(b) 58·8	60·5	(b) ·403	·387	(b) 62
	Year	29·712	29·639	86·4	74·0	104·0	22nd and 26th June.	54·0	4th Feb.	78·3	81·3	72·5	73·0	·759	·730	75
Jark (13)	January	30·013	29·960	75·1	62·1	79·0	19th	55·9	29th	65·2	70·7	61·1	63·8	·491	·511	77
	February	·003	(c) ·964	(d) 71·7	60·9	77·3	28th	51·4	24th	63·7	(c) 67·7	58·7	(c) 61·7	·437	(c) ·472	72
	March	29·942	·886	80·8	66·9	90·7	31st	53·0	5th	71·2	76·7	66·3	70·4	·575	·648	77
	April	·828	·758	88·3	74·9	95·7	5th	68·5	2nd	80·1	84·4	75·1	78·6	·803	·911	79
	May	·689	·626	92·9	78·2	98·4	18th	73·3	15th	83·7	88·7	77·9	80·9	·940	·950	76
	June	·562	·486	96·4	82·7	106·4	24th	77·9	14th	88·3	92·5	78·7	83·2	·863	1·004	66
	July	·437	·370	98·5	85·9	107·0	1st	81·5	4th	89·8	94·4	83·4	84·7	1·053	1·060	76
	August	·461	·377	96·1	85·9	104·2	18th	82·9	27th and 31st	88·7	93·0	83·5	84·3	1·055	1·045	80
	September	·679	·613	90·4	82·9	103·4	20th	78·2	25th	86·6	92·3	79·5	83·0	·911	1·001	73
	October	·849	·794	91·2	76·5	95·6	12th	68·3	31st	80·5	85·8	75·8	79·8	·817	·924	81
	November	30·013	·946	85·0	73·3	87·2	3rd	63·6	7th	73·8	79·5	69·5	75·7	·666	·830	80
	December	·061	·995	78·2	62·9	85·9	1st	57·3	10th	66·	73·0	60·3	64·5	·437	·492	68
	Year	29·735	29·731	87·5	74·4	107·0	1st July	51·4	24th Feb.	78·1	83·2	72·5	75·9	·754	·821	75

(*b*) Mean of 30 days. (*c*) Mean of 29 days. (*d*) Mean of 27 days. (*d*) Mean of 28 days.
N.B.—Elevations in italics indicate barometric determinations.

TABLE D-2 FOR 1931—*contd.*

at 15 stations in Persia, etc.—contd.

DITY.	CLOUD.		WIND DIRECTION.																		WIND VELO-CITY.	RAINFALL.			
			Total number of 4 hrs. winds from								Mean wind direction at 4 hrs.	Total number of 14 hrs. winds from								Mean wind direction at 14 hrs.	Mean daily velocity in miles per hr.	Total rainfall.	Number of rainy days.	Heaviest rainfall.	Date.
Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Calm.	N	NE	E	SE	S	SW	W	NW		Calm.	N	NE	E	SE	S	SW	W	NW						
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
67	3·8	2·8	0	15	5	2	0	1	4	2	2	N 2° W	0	0	3	2	1	1	18	3	3	S 52° W	6·9	2·71	3	1·57	6th
66	5·8	5·3	1	7	14	1	1	0	2	0	2	N 28° E	3	1	10	2	3	0	3	1	0	S 36° E	9·9	2·71	4	1·15	6th
68	1·5	1·6	7	4	11	0	1	0	7	0	1	N 20° E	1	0	3	0	2	0	24	1	0	S 42° W	6·9	0·81	2	0·49	5th
64	3·7	5·4	8	1	3	1	1	0	16	0	0	S 40° W	2	0	0	0	0	1	26	0	1	S 47° W	8·2	0	0	0	..
65	1·2	1·5	5	1	0	3	1	0	21	0	0	S 37° W	0	0	0	0	1	0	30	0	0	S 48° W	9·8	0	0	0	..
68	0·6	0·3	8	2	4	0	0	0	13	1	2	S 75° W	1	0	0	0	0	0	29	0	0	S 45° W	8·1	0	0	0	..
70	3·0	1·3	7	1	5	3	0	0	9	5	1	S 79° W	1	0	0	5	1	1	17	6	0	S 42° W	7·8	0	0	0	..
69	2·3	1·7	6	0	7	5	2	1	4	4	2	N. 70° E	1	0	1	2	2	1	19	5	0	S 43° W	6·7	0	0	0	..
72	2·0	1·6	2	1	10	8	1	1	2	2	3	N 56° E	1	1	0	0	4	0	12	12	0	S 60° W	6·5	0	0	0	..
67	(b) 1·1	0·5	3	4	14	3	0	0	2	2	2	(b) N 34° E	1	0	4	5	1	0	12	8	0	S 51° W	(c) 7·2	0	0	0	..
64	2·3	1·2	1	14	14	0	0	0	0	0	1	N 20° E	2	0	1	1	2	2	12	10	0	S 54° W	4·2	0	0	0	..
51	(b) 1·7	1·3	3	12	6	1	0	0	1	2	5	(b) N 3° W	6	1	1	2	1	0	12	8	0	S 60° W	(c) 5·8	0	0	0	..
66	2·4	2·0	51	62	93	27	7	3	81	18	21	..	19	3	23	19	18	6	219	54	4	..	7·3	6·23	9	1·57	6th Jan.
67	4·5	4·1	1	7	11	9	1	0	0	0	2	N 46° E	1	1	0	1	6	3	6	8	5	S 57° W	8·5	0·77	2	0·56	7th
(e) 70	6·3	(e) 5·0	0	8	9	8	0	0	0	1	2	N 37° E	1	1	2	5	6	4	3	2	3	(e) S 37° E	10·0	4·13	8	1·34	9th
72	1·7	2·5	3	4	3	10	0	0	0	7	4	N 14° E	0	3	0	2	2	4	7	7	6	S 76° W	8·2	1·46	2	1·17	2nd
77	2·5	4·1	4	3	2	5	0	0	1	0	9	N 33° W	0	0	0	1	1	2	5	11	10	N 88° W	7·1	0	0	0	..
71	0·9	1·8	0	2	1	5	2	1	2	10	8	N 66° W	0	0	0	1	1	3	5	13	8	S 86° W	8·6	0	0	0	..
68	0·2	0·8	1	6	1	13	1	0	0	4	4	N 41° E	1	0	1	0	1	3	7	12	5	S 77° W	7·8	0	0	0	..
67	2·1	2·4	0	0	1	17	2	0	0	5	6	N 71° E	0	1	0	2	7	8	4	8	1	S 18° W	9·7	0	0	0	..
70	4·2	2·5	2	1	1	18	4	0	1	1	3	N 89° E	2	0	0	1	8	8	4	7	1	S 14° W	9·1	0	0	0	..
67	0·7	2·2	2	4	5	16	1	0	0	0	2	N 66° E	1	0	0	0	6	6	6	8	3	S 39° W	7·8	0	0	0	..
76	0·8	0·6	9	3	8	9	1	0	0	0	1	N 60° E	0	0	0	0	4	6	7	12	2	S 52° W	7·8	0	0	0	..
83	1·5	1·3	2	10	10	5	0	0	0	1	2	N 28° E	0	0	0	0	2	9	5	10	4	S 53° W	6·4	0	0	0	..
61	1·0	1·0	1	8	9	6	0	0	0	3	4	N 21° E	1	1	0	0	1	5	7	11	5	S 75° W	9·7	0	0	0	..
71	2·1	2·4	25	56	61	121	12	1	4	38	47	..	7	7	3	13	45	61	66	109	53	..	8·4	6·36	12	1·34	9th Feb.

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Abstract of observations taken at 4 and 14 hrs. (G. M. T.)

Station and Height of barometer cistern above sea level in feet.	Month.	Pressure. (Reduced to 32° F. and standard gravity.)		Temperature of Air.								Temperature wet bulb.		Vapour tension in inches of mercury.		Humi
		Mean 4 hrs.	Mean 14 hrs.	Mean maximum.	Mean minimum.	Highest maximum.	Date.	Lowest minimum.	Date.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Baitul Falaj (Muscat) (72)	January	29·971	29·917	78·3	61·3	97·7	19th	55·2	10th	65·4	72·8	59·8	64·5	·442	·495	72
	February	·935	·889	75·3	63·7	89·3	13th	57·1	17th	66·6	71·5	62·1	64·5	·500	·512	77
	March	·907	·851	86·0	67·7	104·2	31st	61·1	4th	74·6	80·9	65·9	67·0	·521	·473	63
	April	·782	·733	96·5	76·7	108·1	30th	69·7	17th & 27th	86·8	90·8	70·1	70·3	·503	·456	41
	May	·649	·594	103·0	84·8	111·3	18th	74·9	14th	95·8	97·9	71·9	73·0	·466	·474	29
	June	·518	·455	105·9	84·8	113·4	15th	76·6	4th	96·5	101·1	77·4	74·3	·679	·481	43
	July	·390	·321	105·7	83·2	114·9	2nd	82·7	27th	95·5	100·1	79·8	79·8	·809	·705	51
	August	·404	·328	103·9	85·0	109·9	20th	80·9	30th	90·0	94·8	80·4	80·9	·910	·869	66
	September	·624	·565	99·9	81·2	105·9	24th	75·0	23rd	88·7	93·8	78·5	77·7	·850	·743	63
	October	·808	·751	93·7	75·4	106·7	9th	60·3	31st	83·3	87·3	73·7	75·8	·689	·726	61
	November	·948	·889	85·3	65·8	88·2	4th	57·7	2nd	73·1	80·5	64·1	70·3	·475	·595	58
	December	30·005	·946	79·1	61·7	87·0	3rd & 5th	52·6	14th	65·9	74·3	59·0	64·7	·406	·483	65
	Year	29·745	29·687	92·7	74·7	114·9	2nd July.	52·6	14th Dec.	81·9	87·1	70·2	71·9	·604	·584	57
Charbar (25)	January	30·026	(c) 29·959	(c) 74·3	61·3	81·0	22nd	51·0	10th	65·5	(c) 70·9	62·1	(c) 65·1	·494	(c) ·537	76
	February	·011	(m) ·964	(m) 72·1	59·3	80·0	17th	49·0	24th	64·2	(m) 67·8	59·3	(m) 62·5	·427	(m) ·595	73
	March	(k) 29·959	(m) ·910	(k) 83·4	(k) 67·0	93·0	30th & 31st	61·2	11th	(k) 74·0	(m) 77·7	(k) 68·9	(m) 73·2	(k) ·638	(m) ·751	(k) 75
	April	·796	(c) ·752	(c) 90·0	74·3	95·0	14th & 15th	69·0	2nd	81·0	(c) 83·4	76·6	(c) 78·2	·866	(c) ·886	80
	May	·693	·645	92·7	77·0	99·0	19th	70·0	16th	85·0	86·0	77·7	79·7	·859	·937	72
	June	·564	(c) ·482	(b) 94·4	82·5	101·0	14th	79·0	1st & 2nd	89·0	(c) 89·9	82·8	(c) 85·2	1·041	(c) 1·140	76
	July	·421	·338	93·9	84·5	102·0	3rd	80·0	17th	88·1	89·4	81·6	84·3	999	1·095	74
	August	·436	(b) ·358	90·5	82·1	97·8	19th	79·0	2nd	85·7	(b) 86·5	80·7	(b) 82·1	·971	(b) 1·033	79
	September	·654	(d) ·580	(b) 88·5	78·5	92·0	11th	70·0	28th	84·0	(d) 84·5	79·8	(d) 81·7	·965	(d) 1·036	82
	October	·823	(e) ·756	87·7	72·5	99·0	15th	59·5	30th	79·5	(e) 82·8	74·5	(e) 78·0	·785	(e) ·893	78
	November	·951	(d) ·876	(b) 83·2	66·3	94·0	4th	60·0	16th	73·5	(d) 77·3	69·4	(d) 73·6	·666	(d) ·773	80
	December	30·002	·932	77·8	60·2	83·0	8th	52·0	12th	66·0	72·6	61·6	66·5	·406	·569	75
	Year	29·778	29·713	85·7	72·1	102·0	3rd July	49·0	24th Feb.	77·9	80·7	72·9	75·9	·759	·854	77

(b) Mean of 30 days. (c) Mean of 29 days. (d) Mean of 28 days. (k) Mean of 21 days.

TABLE D-2 FOR 1931—*contd.*

as 15 stations in Persia, etc.

-DITY.	CLOUD.		WIND DIRECTION.																		WIND VELOCITY.	RAINFALL.			
			Total number of 4 hrs. winds from									Mean wind direction at 4 hrs.	Total number of 14 hrs. winds from									Mean wind direction at 14 hrs	Mean daily velocity in miles per hr.	Total rainfall.	Number of rainy days.	Heaviest rainfall.	Date.
Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Calm.	N	NE	E	SE	S	SW	W	NW		Calm.	N	NE	E	SE	S	SW	W	NW						
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
59	1·7	1·3	20	0	0	1	1	4	0	3	2	S 39° W	0	8	2	12	1	0	0	3	5	N 32° E	4·9	0·65	2	0·55	7th
66	5·7	5·3	12	0	0	2	1	7	2	3	1	S 16° W	0	10	1	9	2	3	0	3	0	N 52° E	5·7	3·39	8	1·14	16th
48	2·3	1·2	15	3	0	0	0	3	0	9	1	N 86° W	1	8	2	10	0	1	0	4	5	N 18° E	4·7	0·26	1	0·26	2nd
33	1·5	3·7	18	1	1	0	1	3	0	6	0	S 66° W	3	12	1	9	1	3	0	1	1	N 41° E	4·9	0·22	1	0·13	25th
27	0·8	1·2	1	4	0	0	1	7	0	17	1	S 80° W	0	11	0	1	1	1	0	13	4	N 49° W	5·5	0	0	0	..
26	0·3	0·2	11	4	1	2	0	3	1	4	4	N 52° W	0	15	0	7	0	0	0	3	5	N 2° E	5·0	0	0	0	..
40	0·8	1·7	8	6	4	1	0	3	0	8	1	N 53° W	1	15	3	3	1	2	0	4	2	N 1° E	5·4	0	0	0	..
54	2·1	1·5	9	7	2	4	3	3	0	3	0	N 36° E	1	14	6	6	0	0	0	3	1	N 71° E	5·2	0	0	0	..
48	0·8	0·6	13	5	1	1	0	4	0	6	0	N 68° W	1	12	4	8	0	2	0	0	3	N 30° E	4·4	0	0	0	..
57	1·4	0·8	22	0	4	1	0	2	0	1	1	N 54° E	0	10	5	11	0	0	0	0	5	N 33° E	4·1	0	0	0	..
58	0·8	1·1	27	0	0	0	1	0	0	2	0	S 62° W	0	5	3	18	1	0	0	1	2	N 67° E	3·8	0·05	0	0·05	19th
57	1·3	0·8	25	1	0	0	0	0	1	3	1	N 77° W	0	10	6	5	1	0	0	0	9	N 10° E	4·6	0	0	0	..
48	1·6	1·6	181	31	13	12	8	39	4	65	12	..	7	180	88	99	7	12	0	35	42	..	4·9	4·57	12	1·14	16th Feb.
(c) 70	1·5	(c) 1·0	11	1	6	6	1	0	0	0	3	N 52° E	10	2	1	1	3	2	3	1	6	(c) N 79° W	7·4	2·55	1	2·55	7th
(m) 74	3·6	(k) 3·8	19	0	6	3	0	0	0	0	0	N 60° E	18	0	2	1	0	0	0	0	0	(k) N 60° E	9·0	1·03	4	0·45	20th
(m) 80	(k) 0·1	(m) 0·5	18	0	0	0	0	0	0	0	3	(k) N 45° W	11	0	0	0	0	1	2	3	2	(m) S 80° W	(c) 14·4	0	0	0	..
(c) 78	0·6	(c) 0	23	0	0	0	0	2	1	2	2	S 72° W	6	0	0	0	1	0	7	10	5	(c) S 83° W	14·1	0	0	0	..
75	0·6	0·6	19	0	0	0	2	1	0	7	2	S 82° W	11	0	0	0	2	1	7	6	4	S 70° W	12·8	0	0	0	..
(c) 82	0·3	(c) 0	22	0	0	1	5	1	0	1	0	S 38° W	12	0	0	0	2	10	3	2	0	(c) S 11° W	12·9	0	0	0	..
80	1·4	0	12	0	0	15	4	0	0	0	0	S 21° W	7	0	0	5	7	11	1	0	0	S 29° E	8·7	0	0	0	..
(b) 81	2·9	(b) 0·3	10	0	0	15	6	0	0	0	0	S 78° E	3	0	0	2	9	11	5	0	0	(b) S 13° E	7·6	0	0	0	..
(d) 87	0·1	(d) 0·1	9	0	1	16	1	0	0	2	1	N 87° E	2	0	0	1	2	20	1	2	0	(d) S 1° W	6·2	0	0	0	..
(e) 79	0·6	(e) 0	19	0	0	7	1	0	0	1	3	N 73° E	0	0	0	0	1	17	9	0	0	(e) S 18° W	5·3	0	0	0	..
(d) 82	0	(d) 0	9	0	4	9	0	0	0	0	8	N 36° E	3	0	0	0	0	9	14	1	1	(d) S 32° W	4·6	0	0	0	..
71	0·6	0·3	5	1	11	9	2	0	0	0	3	N 60° E	0	0	1	0	1	9	12	3	5	S 44° W	5·3	1·80	1	1·80	25th
78	1·0	0·6	176	2	30	81	22	4	1	13	25	..	83	2	4	10	28	91	64	28	23	..	9·0	5·38	6	2·55	7th Jan.

(*k*) Mean of 20 days. (*m*) Mean of 19 days. (*c*) Mean of 27 days.

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Abstract of observations taken at 4 and 14 hrs. (G. M. T.)

Station and Height of bar-cistern above sea-level in feet.	Month.	Pressure. (Reduced to 32° F. and standard gravity.)		Temperature of Air.								Temperature Wet Bulb.		Vapour tension in inches of mercury.		Humi
		Mean 4 hrs.	Mean 14 hrs.	Mean maximum.	Mean minimum.	Highest maximum.	Date.	Lowest minimum.	Date.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Gwadar (22)	January	30·017	29·958	74·7	61·1	78·2	30th	49·2	10th	66·2	70·1	60·6	62·8	·468	·489	70
	February	29·992	·937	71·5	60·1	79·7	28th	47·1	3rd	65·0	68·3	60·4	62·9	·478	·505	75
	March	·932	·862	82·1	67·4	95·4	29th	58·0	3rd	72·7	75·8	63·2	68·6	·628	·810	79
	April	·788	·711	91·8	75·9	99·3	6th	70·7	11th	80·3	83·0	76·7	77·5	·873	·855	85
	May	·643	·566	96·4	78·3	106·1	19th	72·4	15th	83·7	87·4	77·9	76·9	·879	·784	76
	June	·557	·455	93·9	81·8	110·0	11th	75·6	12th	85·9	87·8	81·5	81·8	·998	1·009	82
	July	·451	·356	90·9	81·0	105·2	2nd	76·3	30th	84·4	85·5	79·7	80·2	·953	·958	81
	August	·462	·378	88·9	79·8	96·4	18th	75·7	25th and 31st	82·8	83·9	78·2	78·5	·896	·914	80
	September	·586	·501	86·8	75·6	92·6	19th	71·8	30th	79·9	80·6	75·5	76·3	·824	·853	81
	October	·849	·762	89·0	70·1(b)	97·2	11th	59·6	30th	77·9	80·8	72·3	72·5	·723	·686	77
	November	·979	·904	84·0	64·1	89·8	4th	53·9	6th	73·0	77·0	67·5	68·2	·599	·567	75
	December	30·021	·957	77·5	61·6	85·8	8th	53·6	14th	67·9	71·5	61·4	63·9	·459	·495	67
	Year	29·781	29·705	85·6	71·5	110·0	11th June	47·1	3rd Feb.	76·6	79·3	71·7	72·5	·732	·727	77
Pasni (10)	January	30·024	29·960	74·6	59·4	79·0	28th	50·1	12th	64·4	68·7	60·5	63·7	·491	·532	78
	February	·003	·956	71·5	58·8	79·2	28th	44·0	3rd	63·1	67·2	59·0	63·7	·457	·551	77
	March	29·949	·882	82·6	63·2	94·6	28th	55·4	3rd	72·0	74·3	66·7	71·1	·590	·713	76
	April	·820	·733	92·6	71·5	101·0	15th	68·5	9th	82·3	82·0	74·0	77·1	·723	·860	67
	May	·671	·614	95·6	75·6	103·6	20th	69·6	3rd	86·3	86·7	79·6	81·0	·930	·978	73
	June	·591	·516	93·3	80·1	101·1	25th	76·7	1st	83·1	87·1	81·3	83·4	·965	1·075	74
	July	·484	·409	91·7	81·9	104·6	2nd	79·2	30th	86·6	85·7	81·7	82·2	1·021	1·050	80
	August	·491	·417	90·1	80·3	93·9	18th	77·1	29th	84·5	84·2	78·3	78·2	·873	·876	75
	September	·712	·633	87·4	74·2	91·2	28th	68·9	26th	80·9	79·9	75·5	75·7	·806	·831	77
	October	·872	·788	89·7	67·9	97·4	11th	56·9	28rd	78·6	78·5	70·0	74·6	·618	·801	65
	November	·999	·928	84·5	61·0	88·3	18th	55·0	5th	72·8	74·2	66·3	71·5	·569	·733	73
	December	30·046	·978	78·1	60·6	84·6	3rd	52·0	14th	69·9	70·7	63·1	66·7	·525	·596	79
	Year	29·905	29·733	86·0	69·5	103·6	20th May	44·0	3rd Feb.	77·3	78·3	71·4	74·1	·714	·800	75

(b) Mean of 20 days.

TABLE D-2 FOR 1931—*contd.*

at 15 stations in Persia, etc.

DRY.	CLOUD.		WIND DIRECTION.																		WIND VELOCITY.	RAINFALL			
			Total number of 4 hrs. winds from									Mean wind direction at 4 hrs.	Total number of 14 hrs. winds from									Mean wind direction at 14 hrs.	Mean daily velocity in miles per hr.	Total rainfall.	Number of rainy days.	Heaviest rainfall.	Date.
Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Calm	N	NE	E	SE	S	SW	W	NW		Calm	N	NE	E	SE	S	SW	W	NW						
18	19	20	21	23	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
65	3·9	3·7	9	2	5	2	3	1	0	2	7	N 5°E	7	0	0	2	5	5	8	3	1	S 16° W	5·5	1·52	2	1·23	8th
73	5·7	5·3	5	3	10	4	1	0	0	2	3	N 34°E	3	1	4	6	2	6	4	1	1	S 45° E	7·9	3·10	7	1·00	7th
68	2·2	3·0	3	1	6	2	1	0	2	12	4	N 46°W	2	1	0	0	2	2	17	5	2	S 53° W	6·4	1·07	2	0·63	2nd
79	4·0	3·8	0	0	1	5	2	1	3	17	1	S 76°W	0	0	1	0	1	2	18	8	0	S 58° W	9·1	0	0	0	..
62	2·3	2·9	1	0	1	4	0	0	8	15	2	S 79°W	0	0	1	1	0	2	18	8	1	S 55° W	10·3	0	0	0	..
76	3·4	1·9	0	0	3	11	0	1	2	9	2	N 47°E	0	0	0	0	2	9	15	4	0	S 32° W	6·9	0	0	0	..
79	6·9	6·3	1	0	3	14	4	2	2	2	1	S 83°E	0	0	1	1	10	10	8	3	0	S 5° E	7·0	0	0	0	..
77	3·3	6·5	2	0	3	11	10	1	1	0	1	S 27°E	0	0	0	0	7	13	10	0	0	S 5° W	5·0	0	0	0	..
81	5·3	3·0	1	0	4	6	7	1	5	4	2	S 43°E	0	0	0	0	1	10	15	4	0	S 33° W	4·3	0	0	0	..
67	3·5	0·7	2	0	4	3	1	0	5	13	3	N 87°W	0	0	0	1	4	4	13	9	0	S 45° W	(c) 5·3	0	0	0	.
62	2·4	1·7	5	2	2	1	0	1	2	9	3	N 64°W	4	0	1	0	3	5	12	5	0	S 36° W	4·0	0	0	0	..
64	3·1	2·3	4	7	4	2	1	3	0	2	3	N 10°W	2	4	2	1	3	6	9	3	2	S 40° W	(b) 5·1	1·21	3	0·70	25th
71	4·3	3·5	33	15	52	65	30	11	30	37	42	..	18	6	9	12	40	75	147	54	7	..	6·4	7·90	14	1·28	8th Jan.
74	3·2	2·3	7	3	3	9	0	1	0	2	6	N 31° E	4	0	0	2	3	5	9	4	2	N 25° W	5·0	2·62	3	1·87	31st
81	5·0	5·0	1	5	3	9	2	0	0	0	3	N 31°E	1	1	2	3	4	5	6	2	0	S 27° E	7·9	1·00	6	0·43	10th
84	1·6	1·2	9	2	2	2	0	0	0	7	9	N 49°W	1	0	1	0	1	3	13	12	1	S 68° W	(e) 0·4	1·19	2	0·57	2nd and 14th.
80	2·6	1·2	1	0	2	2	1	1	1	16	6	N 86° W	0	0	0	0	0	1	11	18	0	S 71° W	(k) 9·3	0	0	0	..
78	1·5	2·1	2	0	1	3	2	0	2	12	4	N 88°W	0	0	0	0	0	1	13	16	1	S 70° W	8·5	0	0	0	..
85	1·9	1·7	1	0	0	2	4	0	3	11	2	S 38°W	0	0	0	2	0	3	14	11	0	S 56° W	8·0	0	0	0	..
85	5·3	5·1	0	0	1	3	13	3	5	5	1	S 14°E	0	0	0	1	2	6	17	5	0	S 37° E	7·3	0	0	0	..
75	3·1	5·3	0	0	0	9	6	2	7	7	0	S 7°E	0	0	0	0	1	10	15	5	0	S 35° W	6·0	0	0	0	..
81	4·6	2·5	1	0	0	5	3	1	4	12	4	S 74°W	0	0	0	0	0	1	19	10	0	S 58° W	7·6	0	0	0	..
83	1·5	0·1	0	5	5	5	1	1	2	6	6	N 14°W	1	0	2	0	2	0	8	17	1	S 77° W	6·8	0	0	0	..
87	1·6	1·2	0	5	2	3	0	0	0	3	17	N 30°W	1	0	0	0	1	4	10	13	1	S 61° W	5·0	0	0	0	..
80	2·5	1·6	0	10	5	4	1	0	0	0	11	N 1°E	2	4	1	0	0	0	9	8	5	2	S 37° W	8·3	0·73	2	0·54	25th
81	3·3	2·4	22	30	24	68	33	9	24	31	74	..	10	5	5	18	16	47	143	118	8	..	7·1	6·44	13	1·87	31st Jan.

(b) Mean of 30 days. (c) Mean of 29 days. (e) Mean of 27 days. (k) Mean of 21 days.

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Abstract of observations taken at 4 and 14 hrs. (G. M. T.)

Station and Height of barcistern above sea-level in feet.	Month.	Pressure reduced to 32° F. and standard gravity.		Temperature of Air.								Temperature wet bulb.		Vapour-tension in inches of mercury.		Humi
		Mean 4 hrs.	Mean 14 hrs.	Mean maximum.	Mean minimum.	Highest maximum.	Date.	Lowest minimum.	Date.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Panjgur (3,177)	January	28·829	26·759	65·6	42·4	73·0	4th	29·8	11th	47·2	58·9	42·9	49·5	·233	·242	68
	February	·801	·744	60·4	43·1	74·2	28th	26·6	4th	47·0	55·3	42·5	46·5	·226	·216	67
	March	·791	·724	79·0	51·4	92·0	30th	36·8	4th	58·4	72·2	50·7	56·4	·285	·258	60
	April	·711	·633	91·9	62·5	97·6	30th	58·0	7th and 11th	73·9	82·1	64·7	70·1	·509	·591	70
	May	·617	·544	98·6	69·5	105·4	17th	56·4	15th	82·1	92·1	70·2	76·9	·595	·753	55
	June	·549	·462	101·5	74·5	107·4	15th	68·6	27th	85·0	95·7	72·6	77·2	·667	·711	55
	July	·435	·358	103·7	77·8	107·8	9th and 17th	70·2	4th	86·2	99·1	72·3	75·3	·623	·588	51
	August	·433	·344	105·4	77·1	112·8	7th	67·4	30th	84·9	99·8	71·4	74·2	·602	·536	52
	September	·621	·545	90·4	63·7	106·0	1st	56·6	25th	75·5	89·7	62·8	68·6	·408	·452	47
	October	·783	·708	86·4	55·3	101·2	8th	41·4	20th	65·3	78·5	55·3	61·6	·316	·337	50
	November	·865	·785	79·1	47·3 (g)	85·4	5th	41·0	4th	54·7	70·1	43·6	52·0	·147	·165	37
	December	·861	·796	66·0	41·3	78·2	4th	27·9	31st	47·9	58·6	40·7	46·7	·163	·169	51
	Year	26·691	26·617	86·2	58·8	112·8	7th Aug.	26·6	4th Feb.	67·4	79·3	57·4	62·9	·398	·418	55
Ormara (15)	January	30·024	29·954	75·1	58·5	79·7	15th	49·4	10th	65·8	69·9	60·8	62·6	·484	·472	73
	February	·009	·945	72·2	58·6	80·3	28th	45·5	3rd	64·7	67·4	58·8	60·7	·423	·449	68
	March	29·941	·867	82·7	65·0	97·5	28th	56·0	4th	73·3	75·1	68·3	69·3	·616	·631	77
	April	·797	·710	92·9	75·8	102·5	7th	68·9	2nd	82·3	83·5	76·0	75·4	·811	·761	75
	May	·659	·578	95·8	80·0	109·0	29th	74·7	10th	86·4	86·7	80·3	79·7	·943	·930	78
	June	·573	·488	94·3	82·9	101·0	17th	80·2	11th and 27th	87·1	86·9	82·0	81·8	1·023	1·023	80
	July	·484	·411	92·1	82·6	99·3	4th	80·3	26th	85·2	85·2	80·1	80·3	·954	·957	79
	August	·476	·413	91·0	81·4	94·8	18th	78·7	29th	83·9	84·7	79·1	79·4	·927	·930	80
	September	·696	·629	85·9	77·1	89·4	1st	73·1	17th	79·8	80·3	75·6	75·3	·804	·808	79
	October	·852	·784	89·2	70·1	101·2	11th	55·8	23rd	78·2	80·7	69·4	72·1	·602	·669	65
	November	·992	·916	85·4	62·5	92·1	3rd	54·0	5th	71·2	77·3	67·3	71·9	·607	·709	80
	December	30·038	·971	78·5	59·0	84·8	2nd	50·4	29th	67·1	72·2	60·8	63·9	·453	·485	68
	Year	29·795	29·722	86·3	71·1	109·0	20th May	45·5	3rd Feb.	77·1	79·2	71·5	72·7	·721	·735	75

(g) Mean of 25 days.

TABLE D-2 FOR 1931—*contd.*

at 15 stations in Persia, etc.

DITY.	CLOUD.		WIND DIRECTION.																		WIND VELOCITY.	RAINFALL.			
			Total number of 4 hrs. winds from									Mean wind direction at 4 hrs.	Total number of 14 hrs. winds from									Mean wind direction at 14 hrs.	Mean daily velocity in miles per hr.	Total rainfall.	Number of rainy days.	Heaviest rainfall.	Date.
Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Calm.	N	NE	E	SE	S	SW	W	NW		Calm	N	NE	E	SE	S	SW	W	NW						
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
48	3·3	3·6	3	2	12	8	0	4	2	0	0	N 72° E	3	7	3	0	0	7	9	2	0	S 56° W	6·4	0·28	1	0·22	23rd
49	5·1	5·1	3	5	11	5	0	1	1	0	2	N 41° E	1	8	2	0	0	5	6	1	5	N 63° W	5·2	1·41	5	0·53	7th
36	1·6	2·5	3	5	13	8	1	0	0	1	0	N 51° E	2	7	1	1	0	7	6	2	5	W	4·3	1·21	1	1·10	2nd
49	2·1	2·1	3	3	8	7	1	1	2	3	2	N 43° W	0	4	1	0	1	3	10	7	4	S 78° W	6·0	0·02	0	0·02	2nd
51	0·9	2·6	7	8	8	4	0	1	0	1	2	N 27° E	2	6	1	1	0	2	8	7	4	N 82° W	5·6	0	0	0	..
43	0·2	0·8	4	4	3	3	0	1	5	4	6	N 49° W	0	9	1	0	0	1	3	3	13	N 41° W	5·8	0	0	0	..
32	0·8	1·3	6	2	2	2	0	1	4	7	7	N 68° W	0	13	1	0	0	1	2	2	12	N 29° W	5·8	0·01	0	0·01	19th
29	2·2	2·7	10	1	2	2	0	2	6	4	4	S 83° W	1	10	3	0	0	0	3	5	9	N 35° W	4·9	0	0	0	..
33	0·4	0·5	4	5	10	6	1	1	2	1	0	N 53° E	0	15	3	0	0	0	0	2	10	N 16° W	4·0	0	0	0	..
37	0·3	0·7	2	3	15	10	0	0	0	1	0	N 55° E	1	18	4	1	0	1	1	1	4	N 2° W	4·6	0	0	0	..
25	1·5	1·2	0	1	15	14	0	0	0		0	N 65° E	6	9	5	0	0	1	5	3	1	N 23° W	4·5	0	0	0	..
36	3·3	1·6	1	1	16	11	1	0	1	0	0	N 64° E	2	7	7	0	0	2	9	3	1	N 50° W	6·2	0·09	0	0·07	23rd
39	1·8	2·1	46	40	115	80	4	12	23	22	23	..	18	113	32	3	1	30	62	38	68	..	5·3	3·02	7	1·10	2nd Mar.
65	2·3	2·6	24	0	1	3	1	0	0	1	1	N 76°E	6	0	0	3	4	9	4	5	0	S 8° W	2·4	3·05	3	1·87	8th
66	5·1	6·1	11	0	8	5	2	0	0	1	1	N 65°E	5	0	2	4	3	5	5	3	1	S 2° E	3·0	2·00	5	0·97	1st
74	2·0	2·0	23	0	2	0	0	0	1	4	1	S 71°W	4	0	2	0	0	0	11	12	2	S 78° W	5·4	0·29	2	0·17	14th
69	2·1	1·3	9	1	0	1	0	0	5	14	0	S 81°W	0	0	0	0	0	0	12	18	0	S 72°W	9·1	0	0	0	..
73	1·1	2·3	4	0	3	4	0	0	5	15	0	S 84°W	0	0	0	0	0	0	12	18	1	S 74° W	9·3	0	0	0	..
80	1·6	1·1	8	0	2	2	0	1	3	14	0	S 82°W	0	0	0	0	0	2	13	15	0	S 65° W	7·7	0	0	0	..
80	5·8	2·8	3	1	1	2	0	0	12	11	1	S 71°W	1	0	1	0	3	2	13	11	0	S 54° W	6·6	0	0	0	..
78	3·4	3·3	1	1	0	1	0	1	7	19	1	S 81°W	0	0	0	0	1	8	12	9	1	S 47° W	7·5	0	0	0	..
79	6·4	2·0	0	1	0	1	1	0	4	22	1	S 4°W	0	0	0	0	0	0	14	16	0	S 21° W	9·9	0	0	0	..
67	1·7	0·3	5	1	3	3	1	2	1	9	1	N 45°E	1	0	0	0	1	2	10	16	1	S 69° W	8·0	0	0	0	..
76	1·5	1·3	25	0	2	1	1	0	0	0	1	N 00°E	5	0	0	2	0	2	12	9	0	S 56° W	3·4	0	0	0	..
60	2·4	1·0	19	2	2	5	3	0	0	0	0	N 81°E	11	0	0	0	1	6	7	6	0	S 49° W	2·9	0·39	2	0·29	25th
72	3·4	2·2	132	7	24	33	9	4	38	110	8	..	33	0	5	9	13	36	125	138	6	..	6·3	5·73	12	1·87	8th Jan

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Abstract of observations taken at 4 and 14 hrs. (G. M. T.)

Station and Height of barcistern above sea-level in feet.	Month.	Pressure reduced to 32° F. and standard gravity.		Temperature of Air.								Temperature wet bulb.		Vapour-tension in inches of mercury.		Humi
		Mean 4 hrs.	Mean 14 hrs.	Mean maximum.	Mean minimum.	Highest maximum.	Date.	Lowest minimum.	Date.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Ispahan (5,817)	January	24·19	24·20	(b) 51·3	29·8	65·2	2nd	18·3	24th	33·2	45·3	30·6	38·9	·147	·178	78
	February	(f) ·24	·21	49·9	(f) 28·4	58·3	18th and 19th.	19·9	23rd	(f) 36·9	44·4	(f) 30·7	36·7	(f) ·140	·142	(f) 73
	March														Data	not avail
	April	·26	·22	73·2	48·6	80·4	10th	42·9	8th	57·7	67·2	49·6	52·7	·271	·251	57
	May	·27	·22	80·6	53·8	87·3	29th	48·9	6th	65·7	75·7	55·3	57·4	·320	·223	51
	June	·26	·19	90·5	61·0	99·0	30th	52·1	4th	74·6	85·8	58·9	60·4	·333	·249	38
	July	·14	·08	100·5	69·3	104·5	9th	64·6	21st	82·2	96·3	62·4	63·4	·342	·202	31
	August	·14	·09	99·5	67·9	108·2	10th	57·9	30th	79·7	94·5	61·6	63·3	·333	·222	33
	September	·31	(c) ·26	92·5	57·6	99·9	1st	52·2	21st and 30th	69·3	(c) 86·7	54·2	(d) 60·0	·260	(d) ·237	34
	October	·41	·34	80·1	47·0	92·2	2nd	37·9	30th	56·6	71·2	46·2	51·0	·201	·163	44
	November	·36	·31	61·9	38·9	75·6	5th	28·2	30th	49·2	54·1	39·4	43·7	·141	·173	42
	December	·32	·27	51·3	25·8	65·9	2nd	9·2	27th	37·3	43·9	28·8	34·7	·091	·107	37
	Year(x)	24·27	24·22	75·6	48·0	108·2	10th Aug.	9·2	27th Dec.	58·1	69·6	47·1	51·1	·233	·201	47
Teheran (4,002)	January	25·73	25·74	46·2	29·2	58·0	2nd	17·6	26th	33·2	43·4	31·8	40·3	·167	·217	87
	February	·84	·84	41·8	28·6	50·5	20th	20·1	4th	31·5	39·6	30·5	36·4	·161	·180	91
	March	·77	(b) ·72	(b) 63·5	41·8	75·7	17th	28·2	6th	45·8	(b) 59·2	40·7	(b) 49·8	·199	(b) ·251	64
	April	·73	·68	72·5	51·2	80·6	11th	43·1	23rd	56·7	68·2	50·1	56·1	·284	·310	62
	May	·73	·68	78·3	56·8	87·6	31st	48·9	19th	62·6	75·0	56·1	61·6	·373	·404	66
	June	·71	·65	88·2	65·4	95·7	30th	52·8	4th	70·7	84·7	61·4	66·6	·429	·523	59
	July	·60	·53	97·3	75·5	100·6	21st	72·1	2nd	79·1	93·9	68·3	75·1	·582	·646	57
	August	·63	·56	94·0	73·2	98·6	1st	69·3	27th	77·3	88·9	67·2	73·3	·543	·633	58
	September	·79	·73	86·9	66·9	94·4	1st	53·6	27th and 30th	70·5	80·2	60·0	66·7	·396	·492	53
	October	·88	·84	73·1	53·1	84·7	2nd	42·4	17th	56·9	65·5	48·9	56·1	·249	·333	55
	November	·88	·86	60·1	40·9	70·3	7th	28·9	29th	43·7	51·1	39·8	45·5	·204	·241	71
	December	·82	·74	48·3	27·3	60·6	2nd	12·5	26th	31·8	39·8	39·8	36·6	·143	·181	81
	Year	25·76	25·71	70·9	50·8	100·6	21st July	12·5	26th Dec.	55·0	65·8	48·7	55·5	·311	·368	67

(b) Mean of 30 days. (c) Mean of 29 days. (d) Mean of 28 days. (x) Mean of 11 months. (f) Mean of 26 days.

N B.—Elevations in italics indicate barometric determinations.

TABLE D-2 FOR 1931—*contd.*

at 15 stations in Persia, etc.

DITY.	CLOUD.		WIND DIRECTION.																		WIND VELOCITY.	RAINFALL.			
			Total number of 4 hrs. winds from									Mean wind direction at 4 hrs.	Total number of 14 hrs. winds from									Mean wind direction at 14 hrs.	Mean daily velocity in miles per hr.	Total rainfall.	Number of rainy days.	Heaviest rainfall.	Date.
Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Calm.	N	NE	E	SE	S	SW	W	NW		Calm.	N	NE	E	SE	S	SW	W	NW						
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
58	2·6	3·7	27	0	0	0	0	0	4	0	0	S 45° W	21	0	0	1	0	1	6	2	0	S 45° W	1·3	1·13	3	0·72	7th
50	(f) 3·3	4·1	21	0	0	0	0	0	5	0	0	(f) S 45° W	15	0	2	0	1	0	7	1	2	S 62° W	(h) 1·8	1·45	6	0·33	26th
able.																											
39	2·2	4·7	19	0	0	0	1	1	6	1	2	S 63° W	4	2	3	1	1	1	13	4	1	S 59° W	(e) 3·3	0·71	2	0·30	25th
33	1·8	4·3	11	2	0	0	0	0	8	5	5	S 86° W	4	3	3	2	0	1	12	3	3	S 77° W	3·9	0·20	1	0·14	3rd
25	0·7	1·9	11	3	3	1	1	0	5	3	3	N 58° W	3	7	3	2	1	0	5	1	3	N 9° E	4·1	0·03	0	0·03	4th
12	0·9	2·1	20	0	0	1	1	0	2	2	1	S 60° W	(e) 5	1	7	9	1	0	2	0	0	(g) N 74° E	2·7	0	0	0	..
14	0·7	1·8	22	1	0	0	0	0	0	2	6	N 50° W	13	4	7	2	2	0	3	0	0	M 49° E	2·2	0	0	0	..
(d) 15	0·6	(c) 1·6	25	0	0	0	0	0	4	1	0	S 54° W	17	1	3	4	1	0	0	1	0	(e) N 68° E	1·6	0	0	0	..
19	0·3	0·7	23	0	0	0	0	0	4	2	2	S 77° W	17	1	7	3	0	0	3	0	0	N 57° E	1·4	0	0	0	..
41	3·8	3·6	25	0	0	0	1	0	0	3	1	W	14	0	3	6	2	0	2	3	0	S 36° E	1·4	0·68	2	0·34	8th
35	1·6	1·7	27	0	0	0	0	0	2	1	1	S 77° W	24	0	0	0	0	0	5	1	1	S 62° W	1·1	0·45	1	0·45	6th
31	1·8	2·7	231	6	9	2	4	1	40	30	21	..	137	19	43	30	9	3	58	16	10	..	2·3	4·65	15	0·72	7th Jan.
76	3·7	5·5	11	3	11	0	1	0	3	1	1	N 28° E	11	2	1	1	1	1	12	2	0	S 47° W	1·7	1·24	5	0·32	19th
75	6·1	5·5	16	1	9	0	2	0	0	0	0	N 53° E	16	1	1	0	2	1	7	0	0	S 27° W	1·2	3·39	8	0·95	13th
(b) 51	(b) 3·8	4·3	26	1	2	0	1	0	0	0	1	N 30° E	13	1	1	0	0	2	5	5	3	(b) S 80° W	1·7	0·58	1	0·48	21st
45	4·1	5·2	28	0	0	0	0	1	0	1	0	S 45° W	10	0	2	0	0	1	9	5	3	S 72° W	2·9	0·78	2	0·44	22nd
49	2·4	3·7	23	1	0	0	1	2	3	0	1	S 34° W	5	1	2	0	2	1	9	7	4	S 75° W	2·5	0·93	4	0·38	9th
44	1·3	1·4	29	0	0	0	0	1	0	0	0	S	20	0	0	1	0	1	3	3	2	S 73° W	1·6	0·13	0	0·09	8th
41	1·8	1·6	26	0	1	0	1	1	2	0	0	S	18	0	0	0	4	6	3	0	0	S 4° E	1·3	0·02	0	0·02	24th
47	1·9	2·1	26	1	0	0	1	2	1	0	0	S	26	0	0	0	3	0	2	0	0	S 11° E	1·1	0·08	0	0·08	13th
49	0·4	0·9	27	1	0	0	0	0	2	0	0	S 74° W	29	0	0	0	0	0	0	0	1	N 45° W	1·0	0	0	0	..
55	0·3	0·7	16	7	5	0	0	0	0	0	3	N 6° E	26	2	0	0	0	1	1	1	0	N 80° W	1·3	0	0	0	..
64	4·9	3·9	22	3	3	0	0	0	1	1	0	N 5° E	26	0	1	0	0	1	0	1	1	N 68° W	1·0	1·20	4	0·40	11th
76	4·0	3·0	21	5	3	0	1	0	0	1	0	N 16° E	23	0	0	1	0	1	4	2	0	S 45° W	1·2	1·62	6	0·52	6th
58	2·9	3·1	271	23	34	0	8	7	12	4	6	..	223	7	8	2	12	16	55	26	14	..	1·5	9·97	30	0·95	13th Feb.

(e) Mean of 27 days. (g) Mean of 25 days. (h) Mean of 24 days.

MONTHLY AND ANNUAL

Abstract of observations taken in the forenoon and afternoon

Station and height of barometer above sea-level in feet with the time of observation.	Month.	Pressure (reduced to 32° F. and standard gravity.)		Temperature of Air.								Temperature wet bulb.		Vapour-tension in inches of mercury.		Humi
		Mean at Time I.	Mean at Time II.	Mean maximum.	Mean minimum.	Highest maximum.	Date.	Lowest minimum.	Date.	Mean at Time I.	Mean at Time II.	Mean at Time I.	Mean at Time II.	Mean at Time I.	Mean at Time II.	Mean at Time I
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Seistan. (2,000). Time I—4 hrs. (G. M. T.) Time II—12 hrs. (G. M. T.)	January	28·382	28·295	59·3	35·5	78·0	21st	24·6	10th and 11th	39·7	57·1	37·1	46·9	·195	·203	78
	February	·491	·425	52·5	36·5	64·4	28th	22·8	25th	39·7	51·5	37·4	43·7	·201	·196	80
	March	·395	·292	73·9	46·9	94·0	21st	34·4	4th	53·5	72·7	48·1	55·7	·266	·238	65
	April	·251	·145	86·1	61·9	95·8	14th	55·0	11th	69·2	85·3	61·1	66·5	·433	·401	60
	May	·178	·080	90·1	66·5	98·1	16th	57·8	12th	74·3	89·5	62·9	68·2	·427	·414	50
	June	·077	·013	96·5	73·0	106·6	17th	60·8	4th	81·3	96·2	64·3	70·4	·380	·406	35
	July	27·914	27·828	102·1	78·4	107·0	29th, 30th and 31st	68·4	28th	87·0	101·9	66·9	70·0	·409	·366	30
	August	·935	·842	100·2	77·8	109·2	2nd	63·9	31st	84·7	99·9	65·6	71·9	·391	·429	31
	September	28·179	28·022	92·9	65·7	102·0	1st	53·5	27th	76·6	92·1	60·2	64·6	·315	·259	34
	October	·404	·304	80·9	53·7	96·2	4th	35·7	29th	61·0	79·9	51·1	60·5	·253	·284	46
	November	·486	·395	71·1	43·7	79·1	3rd	34·3	25th.	49·6	69·6	43·9	54·4	·217	·236	60
	December	·435	·396	63·6	34·0	79·4	7th	19·8	28th	38·2	61·8	35·9	48·6	·171	·184	72
	Year	28·265	28·170	80·8	56·1	109·2	2nd Aug.	19·8	28th Dec.	63·0	79·8	52·9	60·2	·305	·301	53
Air Ship Base Observatory Drigh Road (Karachi). (77). Time I—3·32 hrs. (G. M. T.) Time II—14 hrs. (G.M.T.)	January	29·939	29·922	78·9	49·9	85·2	7th	42·7	2nd	56·9	68·2	48·5	56·8	·235	·313	49
	February	·965	·900	75·6	53·7	82·5	28th	40·4	4th	59·8	68·0	51·5	56·8	·290	·323	55
	March	·836	·818	87·7	59·7	96·4	30th	49·7	6th	69·5	77·0	63·2	66·4	·492	·497	69
	April	·735	·668	97·4	71·7(c)	107·3	14th	64·6	7th	81·8	88·8	73·2	74·9	·695	·746	64
	May	·609	·553	95·5	77·8	102·8	7th	70·2	15th	85·8	85·7	78·0	78·2	·852	·858	69
	June	·528	·461	94·9	82·3	98·3	8th	79·2	1st	87·6	87·0	79·5	80·5	·880	·968	69
	July	·427	·372	93·0	82·5	101·2	26th	76·2	19th	86·2	86·4	79·3	80·0	·895	·935	73
	August	·429	·372	92·0	81·7	97·9	14th	78·7	14th	85·0	84·7	78·6	78·6	·889	·894	74
	September	·638	·584	90·3	76·6	93·1	20th	70·2	28th	81·0	81·0	74·5	74·9	·765	·781	78
	October	·789	·720	95·5	70·5	105·8	7th	57·2	29th	80·3	83·5	68·4	70·8	·538	·573	53
	November	·940	·866	90·7	60·3	93·6	3rd	55·0	7th	70·5	78·1	57·9	64·3	·315	·422	43
	December	·989	·917	82·1	54·2	88·2	1st	47·9	13th	60·9	71·6	51·0	59·6	·245	·345	46
	Year	29·744	29·679	89·5	68·4	107·3	14th Apl.	40·4	4th Feb.	75·4	79·6	67·0	70·1	·591	·638	61

(b) Mean of 30 days. (c) Mean of 29 days. (e) Mean of 27 days. (g) Mean of 25 days.

TABLE D-2 FOR 1931—*contd.*

at 15 stations in Persia, etc.

DITY.	CLOUD.		WIND DIRECTION.																		WIND VELOCITY.	RAINFALL.			
Mean at Time II.	Mean at Time I.	Mean at Time II.	Total number of 4 hrs. (G. M. T.) winds from									Mean wind direction at Time I.	Total number of 14 hrs. (G. M. T.) winds from								Mean wind direction at Time II.	Mean daily velocity in miles per hr.	Total rainfall.	Number of rainy days.	Heaviest rainfall.	Date.
			Calm.	N	NE	E	SE	S	SW	W	NW		Calm.	N	NE	E	SE	S	SW	W	NW						
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
43	4·9	4·2	15	3	1	0	6	0	0	0	6	N 11° E	9	5	0	0	5	0	0	0	12	N 26° W	3·5	0.37	1	0·19	8th
50	6·3	4·7	2	2	0	0	3	0	0	1	20	N 43° W	3	1	1	0	2	0	0	0	21	N 40° W	6·6	1·34	4	0·70	13th
29	3·6	3·9	9	0	1	0	7	0	0	0	14	N 37° W	5	1	0	0	10	0	0	0	15	N 38° W	4·6(g)	0·42	2	0·32	6th
33	4·3	5·1	4	0	0	1	3	0	0	0	22	N 43° W	12	0	0	0	1	0	0	0	17	N 45° W	4·2	0·30	2	0·16	26th
30	2·6	4·4	1	4	0	0	1	0	0	0	25	N 39° W	6	1	0	0	3	0	0	0	21	N 43° W	7·8(b)	0·04	0	0·04	12th
23	0·9	1·2	0	7	1	0	0	0	0	0	22	N 32° W	2	3	0	0	2	0	0	0	23	N 41° W	11·6	0	0	0	..
17	0·2	0·2	0	14	17	0	0	0	0	0	0	N 25°W	..	6	1	0	0	0	0	0	24	N 34° W	12·6	0	0	0	..
21	1·0	0·5	0	8	0	0	0	0	0	0	23	N 34° W	..	7	0	0	0	0	0	0	24	N 35° W	15·4	0	0	0	..
16	0	0	2	1	6	0	1	0	0	1	19	N 27° W	1	9	9	0	0	0	0	0	11	N 3° W	11·0	0	0	0	..
26	0·3	0·3	4	9	9	0	1	0	0	0	6	N 8° E	2	8	5	0	1	0	0	0	4	N 22° E	9·1	0	0	0	..
30	3·2	3·3	8	7	11	0	0	0	0	0	4	N 16° E	6	7	15	0	2	0	0	0	0	N 36° E	5·2	0	0	0	..
31	2·3	2·4	10	4	3	0	4	0	3	1	6	N 24° W	4	4	3	0	8	1	0	0	10	N	3·8	0·01	0	0·01	9th
29	2·5	2·5	57	59	49	1	26	0	3	3	167	..	51	53	44	0	34	1	0	0	182	..	7·9	2·48	9	0·70	13th Feb.
45	2·5	1·6	4	11	13	1	0	0	1	0	1	N 23° E	0	0	4	4	1	1	9	11	1	S 67° W	4·8	0·05	0	0·05	24th
47	5·7	5·3	3	7	16	2	0	0	0	0	0	N 36° E	1	0	7	5	1	1	6	6	1	S 45° W	5·5(c)	0·14	0	0·09	8th
57	1·8	2·0	6	7	5	0	2	1	2	6	2	S 28° W	0	0	0	1	0	0	12	17	1	S 73°W	6·6	0·17	1	0·17	15th
65	2·6	2·0	1	2	1	1	0	0	3	16	6	N 76°W	0	0	0	0	0	0	14	16	0	S 69° W	7·8	0	0	0	..
72	3·6	3·3	0	0	0	0	0	0	11	17	3	S 79° W	0	0	0	1	0	0	16	13	1	S 70° W	12·5	0	0	0	..
74	5·7	4·3	0	0	0	0	0	0	9	20	1	S 78° W	0	0	0	0	0	0	19	11	0	S 61° W	14·3	0·05	0	0·05	22nd
75	7·0	7·3	0	0	1	0	0	0	11	13	1	S 76° W	0	0	0	0	0	0	16	15	0	S 67° W	16·3	0·22	1	0·22	19th
75	8·2	7·3	0	0	0	0	0	0	8	21	2	S 81° W	0	0	0	0	0	0	17	14	0	S 65° W	13·5	0·06	0	0·03	14th and 19th
74	6·3	4·9	0	0	0	0	0	0	3	24	3	W	0	0	0	0	0	0	12	17	1	S 74° W	15·2	0	0	0	..
53	2·2	0·9	1	7	8	2	1	0	1	5	6	N 6° W	0	1	1	1	0	1	6	17	4	S 88° W	8·6	0	0	0	..
45	2·0	1·6	3	15	11	0	0	0	0	0	1	N 17° E	0	0	3	1	0	0	5	16	5	N 84° W	5·5	0	0	0	..
43	1·0	0·9	0	20	10	1	0	0	0	0	0	N 17° E	0	0	8	4	0	1	6	9	3	N 66° W	6·4	0	0	0	..
60	4·1	3·5	18	69	65	7	3	1	49	127	26	..	1	1	23	17	2	4	38	162	17	..	9·7	0·69	2	0·22	19th July

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Abstract of observations taken at 4 hrs. and 14 hrs. (G.M.T.)

Station and height of bar-cistern above sea-level in feet.	Month.	Pressure (reduced to 32° F. and standard gravity.)		Temperature of Air.								Temperature wet bulb.		Vapour-tension in inches of mercury.		Humi
		Mean 4 hrs.	Mean 14 hrs.	Mean maximum.	Mean minimum.	Highest maximum.	Date.	Lowest minimum.	Date.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Meshed (3,104)	January	26·018	25·974	40·5	17·9	61·2	20th	−12·1	9th	27·2	32·4	25·6	30·7	·144	·159	89
	February	·115	26·067	35·7	16·2	46·7	26th	2·9	14th	25·0	29·6	24·2	28·3	·125	·142	90
	March	·015	25·954	59·3	29·4	77·2	19th	12·9	1st and 25th	39·8	50·9	37·5	45·0	·194	·233	81
	April	25·942	·885	71·5	42·9	87·7	13th	30·9	7th	54·4	62·5	49·4	54·2	·289	·354	70
	May	·926	·871	74·1	46·9	85·2	30th	40·9	4th	59·3	66·2	54·5	56·8	·377	·358	73
	June	·878	·813	85·1	51·1	97·2	16th	38·9	5th	67·5	77·7	59·4	60·9	·403	·342	61
	July	·757	·694	94·6	57·3	99·2	21st	48·9	27th	76·7	86·2	63·4	64·3	·418	·343	48
	August	·826	·760	91·4	53·2	96·2	2nd	44·4	15th	71·0	82·5	60·9	62·0	·417	·317	55
	September	·966	·894	86·6	44·7	95·2	1st	36·9	6th	63·8	73·7	54·1	57·4	·305	·285	52
	October	26·126	26·039	71·8	33·5	92·2	2nd	18·9	31st	49·2	58·5	43·1	46·2	·208	·217	61
	November	·129	·051	57·2	25·1	76·7	23rd	12·4	23rd	37·3	45·7	33·8	39·8	·152	·177	71
	December	·063	25·995	47·0	21·1	57·2	2nd, 7th and 31st	9·9	27th	30·7	36·4	29·7	34·5	·156	·179	89
	Year	25·980	25·916	67·9	36·6	99·2	21st July	−12·1	9th Jan.	50·1	58·5	44·6	48·5	·266	·259	70

TABLE D-2 FOR 1931—*concld.*

at 15 stations in Persia, etc.

DITY.	CLOUD.		WIND DIRECTION.																		WIND VELOCITY.	RAINFALL.				
			Total number of 4 hrs. winds from									Mean wind direction at 4 hrs.	Total number of 14 hrs. winds from									Mean wind direction at 14 hrs.	Mean daily velocity in miles per hr.	Total rainfall.	Number of rainy days.	Heaviest rainfall.	Date.
Mean 14 hrs.	Mean 4 hrs	Mean 14 hrs.	Calm.	N	NE	E	SE	S	SW	W	NW		Calm.	N	NE	E	SE	S	SW	W	NW						
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
84	5·9	5·3	25	0	0	0	6	0	0	0	0	S 45° E	20	0	1	1	8	0	0	0	1	S 58° E	1·4	1·85	5	0·95	7th
85	6·5	5·4	19	0	1	1	5	0	0	0	2	S 70° E	12	0	0	0	11	3	0	0	2	S 34° E	2·2	1·38	4	0·91	13th
65	4·9	4·2	24	0	0	0	2	2	0	1	2	S 27° W	22	0	0	0	3	2	0	2	2	S 26° W	1·7	2·59	4	1·60	22nd
60	5·3	5·9	22	1	0	0	5	0	0	1	1	S 45° E	10	0	2	1	13	4	0	0	0	S 45° E	2·1	2·84	5	0·80	22nd
57	3·6	5·1	23	0	0	0	4	0	0	3	1	S 23° W	16	2	5	1	5	1	1	1	0	N 74° E	(b) 1·5	2·59	10	0·55	24th
39	2·2	2·7	28	1	0	0	0	0	0	0	1	S 22° W	9	1	16	1	2	0	0	0	1	N 48° E	1·2	1·63	2	0·94	3rd
28	0·7	2·0	26	0	0	0	1	0	0	3	1	W	3	2	23	2	1	0	0	0	0	N 47° E	1·5	0·32	1	0·27	24th
29	1·0	0·8	27	0	0	0	1	1	0	1	1	S 45° W	4	0	23	2	2	0	0	0	0	N 53° E	1·6	0	0	0	..
35	0·2	0·2	25	0	0	0	3	0	0	1	1	S 16° E	13	0	14	1	2	0	0	0	0	N 55° E	1·0	0	0	0	..
46	1·6	1·1	24	0	2	0	5	0	0	0	0	S 67° E	14	0	3	1	13	0	0	0	0	S 60° E	1·4	0	0	0	..
61	5·5	5·1	26	0	0	0	4	0	0	0	0	S 45° E	19	0	1	0	9	0	0	1	0	S 47° E	1·2	1·44	4	0·73	29th
82	5·1	4·8	18	1	1	2	3	1	0	3	2	E	21	0	0	0	3	2	0	4	1	S 37° W	1·6	1·06	2	0·76	8th
56	3·4	3·5	237	3	4	3	39	4	0	13	12	..	163	5	88	10	72	12	1	8	7	..	1·5	16·20	37	1·60	22nd Mar.

(b) Mean of 30 days.

Table D-3.—Abstract of Observations taken at 8 hrs. (local time) at 225 Stations in the year 1931.

ANNUAL TABLE D-3 FOR 1931.

Abstract of 8 hrs. (local time) observations.

Station and height of bar-cistern above sea-level in feet.	Pressure.		Wind.		Temperature.								Humidity.		Cloud.	Rainfall.				
					Mean 8 hrs.		Maximum.			Minimum.										
	At 8 hrs. reduced to 32° F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest during year.	Mean.	Departure from normal.	Lowest during year.	Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Bay Islands.																				
Port Blair (59)	29·848	—·004	..	5·5	80·5	75·3	86·6	—0·5	96	77·4	+0·4	70	77	—7	6·5	93·25	—23·17	140	+1·4	3·05
Lower Burma.																				
Victoria Point (147)	29·792	+·006	..	5·4	79·5	75·9	85·7	—0·2	96	75·6	+0·8	69	84	+1	6·4	269·99	+111·12	184	+82·5	6·76
Mergui (66)	29·865	—·002	..	..	77·5	75·2	87·1	—0·3	96	74·3	+2·4	64	89	+3	5·8	145·17	—16·07	150	—3·8	6·32
Tavoy (19)	29·913	—·002	..	2·1	77·9	74·1	90·2	+2·3	99	72·2(a)	+0·4	59	83	—5	5·6	174·26	—40·48	132	—12·4	6·85
Amherst (71)	29·853	..	..	7·2	79·4	74·7	87·2	..	94	74·4	..	66	80	..	6·1	146·32	..	133	..	4·06
Rangoon (18)	29·896	+·001	..	3·2	77·6	74·1	90·9	+1·6	103	73·9	+0·9	63	84	—3	5·5	122·73	+23·70	126	+3·7	5·96
Bassein (27)	29·887	+·005	..	3·2	78·6	74·8	90·5	+2·3	102	72·6	0	58	89	—5	5·2	105·40	—3·73	111	—13·8	5·94
Diamond Island (41)	29·855	—·008	..	6·4	80·6	76·2	85·7(b)	+0·4	93	77·5	+1·8	71	81	+1	5·4	125·82	+7·92	107	—6·8	6·31
Gwa (11)	29·895	...	...	4·3	76·9	73·8	86·4	...	95	70·7	...	52	87	...	4·7	120·78	...	116	...	6·12
Toungoo (158)	29·759	+·013	..	..	76·5	72·2	91·3	+1·3	105	71·1	+0·7	52	81	—5	5·5	59·88	—13·08	103	—11·7	2·74
Kyaukpyu (18)	29·871	+·004	..	4·4(a)	80·0(a)	76·6(a)	86·4(a)	+0·8	96	75·6(a)	+1·2	64	85(a)	—1	5·0	182·56	+2·76	126	—4·2	9·10
Akyab (20)	29·867	+·002	..	7·3	76·5	78·0	85·8	0	94	71·6	—0·1	54	84	—4	5·8	203·25	—0·12	123	—2·5	10·70
Upper Burma.																				
Minbu (166)	29·735	—·009	..	3·5	78·4	71·6	92·4	+1·0	100	72·0	+0·6	50	71	—5	3·3	23·14	—22·24	44	—13·2	2·04
Yamethin (644)	29·252	+·011	..	4·1	76·1	70·1	92·0	+0·9	107	70·9	+0·3	51	73	—6	4·2	34·74	—3·28	68	—5·3	2·28
Mandalay (250)	29·631	—·006	..	2·9	76·9	71·5	94·0	+1·0	110	73·6	+1·3	52	36	—42	3·7	23·61	—9·55	42	—8·8	1·85
Monywa (280)	29·613	—·004	..	2·3	76·4	70·5	93·3	+1·8	111	71·6	+0·4	53	75	—3	4·2	26·49	—4·56	47	+2·9	2·66
Lashio (2,802)	27·112	+·005	..	2·4	66·8	63·0	81·8	+0·2	99	61·4	+0·9	41	81	—5	5·1	53·73	—8·14	90	—10·7	2·85
Bhamo (416)	29·496	—·001	..	1·7	71·0	68·3	85·8	—0·1	103	66·2	+1·3	42	87	—3	6·7	72·84	+0·88	93	—7·5	3·43
Myitkyina (463)	29·410	+·002	..	2·7	70·8	67·7	85·2(a)	+1·4	100	66·5	+0·9	47	85	—2	6·3	80·19	+1·20	112	+6·5	4·70
Assam.																				
Dibrugarh (348)	29·485	—·009	..	1·9	69·3	67·8	81·5	+0·7	98	65·8	+0·6	46	91	—1	6·0	123·73	+15·31	138	+3·5	7·06
Sibsagar (333)	29·517	+·001	..	3·5	71·1	69·2	83·4	+2·1	100	67·1	+1·4	48	91	—3	7·8	115·07	+19·08	134	+5·5	7·41
Tezpur (258)	29·586	+·004	..	2·1	72·4	69·5	84·2	+1·9	99	68·1	+1·1	50	86	—3	6·5	72·18	—2·06	99	—6·1	3·84
Gauhati (196)	29·639	—·006	..	1·6	72·2	69·7	84·7	+0·2	98	67·0	+0·7	49	88	0	6·1	76·02	+10·73	95	+2·2	3·97
Dhubri (115)	29·692	—·012	..	4·9	72·7	69·7	82·4	—0·4	98	68·9	+0·9	50	86	—1	5·3	95·65	—0·85	106	+11·7	4·79
Silchar (104)	29·745	+·006	..	1·6	73·0	70·4	86·6	+0·5	98	68·1	+0·6	49	88	+1	5·6	116·60	—7·88	142	+5·9	5·14
Bengal.																				
Cox's Bazar (36)	29·786	+·007	..	2·9	76·9	73·1	85·4	+0·4	94	70·6	+1·2	53	83	—4	5·3	142·68	—3·09	110	—0·5	7·61
Chittagong (87)	29·740	+·005	..	6·5	75·0	71·0	86·7	+1·8	97	70·3	+1·0	51	81	—5	4·8	108·94	+6·21	90	—5·9	5·60
Narayanganj (26)	29·775	—·009	..	3·9	76·3	72·3	87·3	+1·1	100	71·3	+0·8	50	82	—3	5·2	83·61	+9·79	100	+6·7	7·18
Barisal (12)	29·791	+·002	..	3·5	76·7	73·1	86·6	+0·8	98	71·6	+1·3	52	83	—2	4·9	86·18	+3·87	113	+9·8	4·38
Jessore (26)	29·774	+·002	..	3·8	76·1	73·1	86·2	..	104	69·2	..	45	87	+3	4·6	57·75	—8·28	93	+5·0	2·24
Calcutta (21)	29·774	—·001	..	3·4	76·2	73·2	88·3	+1·4	103	72·7	+2·0	51	86	+3	4·9	65·38	+2·84	90	+4·8	2·12
Sangor Island (10)	29·773	—·008	..	11·1	78·8	75·1	84·6	—0·8	94	74·3	+0·9	53	83	—2	5·9	108·38	+38·97	91	+11·4	6·24
Burdwan (99)	29·684	—·012	..	2·7	75·2	71·9	90·0	+1·2	110	70·8	+0·4	49	84	+5	3·5	61·97	+3·34	89	+12·1	3·31
Berhampore (65)	29·739	+·006	..	2·6	76·7	72·4	89·9	+2·3	112	70·2	+0·7	46	81	—2	5·0	42·92	—14·19	74	—3·2	3·94
Mymensingh (63)	29·765	+·010	..	1·8	74·1	71·1	85·9	+1·1	99	69·4	+0·5	48	85	—2	5·2	84·56	—8·39	98	—7·4	4·07
Bogra (59)	29·748	+·007	..	2·6	75·0	71·2	87·2	+1·0	107	69·5	+1·4	48	82	—1	5·9	70·48	—0·49	82	—3·3	4·20
Dinajpur (123)	29·674	—·004	..	2·4	73·9	69·7	86·6	+0·6	106	67·6	+0·7	45	80	—3	5·5	51·55	—19·55	72	—7·5	3·35
Jalpaiguri (274)	29·541	+·001	..	1·9	72·0	70·3	85·9	+1·6	97	67·0	+0·8	46	91	+5	4·3	145·74	+23·42	128	+19·8	7·90

(a) Mean of 11 months. (b) Mean of 10 months.

N.B.—Elevations in *italics* indicate barometrical determination.

ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of bar-cistern above sea-level in feet.	Pressure.		Wind.		Temperature.							Humidity.		Cloud	Rainfall.				
					Mean 8 hrs.		Maximum.			Minimum.									
	At 8 hrs. reduced to 32° F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest during year.	Mean.	Departure from normal.	Lowest during year.	Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Orissa.																				
Balasore (64)	29·733	+·004	..	4·8	77·4	75·2	88·7	+0·1	112	72·1	+1·6	51	81	0	5·3	62·53	−0·20	81	+3·0	2·65
Chandbali (20)	29·784	..	..	5·9	77·8	74·0	89·8	..	112	72·1	..	52	83	..	4·0	63·92	..	76	..	5·65
Cuttack (87)	29·711	+·001	..	2·6	77·7	73·5	92·1	+1·2	114	72·9	+0·4	55	81	+2	4·8	60·29	+1·02	79	+4·1	4·92
Sambalpur (486)	29·305	−·006	..	2·9	76·6	70·0	91·5	+1·0	116	70·1	+0·8	46	78	+2	4·5	73·82	+7·59	70	−3·9	9·69
Chota-Nagpur.																				
Chaibasa (733)	29·046	+·003	..	2·5	75·8	70·1	90·9(a)	+0·4	115	69·5	+1·5	45	78	−1	5·3	51·19	−0·60	76	+1·6	3·03
Ranchi (2,152)	27·643	+·009	..	3·4(d)	73·1	64·8	84·1	−0·1	108	65·7	+0·2	45	65	−1	5·0	61·37	+4·16	96	+15·8	3·35
Bihar.																				
Purnea (124)	29·676	−·004	..	2·4	73·0	69·1	86·2	−0·3	106	67·0	+0·7	41	82	−3	4·0	63·75	+1·47	78	+7·2	4·31
Darbhanga (177)	29·617	−·012	..	3·2	74·7	69·5	87·5	+1·5	110	67·4	−0·4	41	75	−4	4·3	47·60	−2·67	40	−19·0	3·95
Patna (173)	29·606	−·002	..	3·8	75·5	69·0	89·3	+2·0	115	69·9	+1·3	46	71	−1	4·1	38·83	−9·70	50	−6·0	3·84
Gaya (372)	29·413	0	..	2·9	77·7	68·6	91·7	+2·0	117	70·5	+1·6	46	63	−7	3·4	36·57	−10·91	60	+2·0	2·80
Naya Dumka (489)	29·302	+·004	..	2·7	75·2	69·7	88·6	+0·9	114	68·4	+0·5	42	75	+2	4·4	60·83	+3·74	74	−3·9	7·78
United Provinces, East.																				
Gorakhpur (257)	29·514	−·012	..	2·3	74·0	68·3	84·4(c)	+0·5(c)	..	67·4	+0·7	41	75	0	3·4	38·16	−12·03	55	−1·6	3·60
Benares (256)	29·525	−·009	..	3·9	75·9	67·6	90·7	+1·2	115	68·7	+2·1	41	66	−5	4·4	44·51	+3·96	55	+2·8	3·83
Allahabad (309)	29·470	−·004	..	3·9	75·7	66·8	91·4	+1·3	117	68·5	+1·7	40	64	−1	4·0	37·00	−2·06	40	−9·0	3·26
Cawnpore (416)	29·356	−·008	..	1·9	74·3	65·9	91·5	+1·6	117	68·3	+1·9	42	64	−2	2·2	41·96	+6·04	50	+5·5	4·51
Lucknow (368)	29·406	−·007	..	2·0	74·3	67·0	90·9	+1·2	116	67·4	+1·7	40	69	+1	3·4	32·21	−6·36	53	+4·7	4·12
Bahraich (407)	29·354(a)	−·013	..	3·1	73·2	67·0	89·4	+1·3	114	66·5	+0·8	40	73	0	2·7	44·44	−0·86	46	−3·7	5·84
United Provinces, West.																				
Jhansi (824)	28·957	−·016	..	3·0	76·7	64·9	91·3	+0·6	115	68·2	−0·8	41	54	−4	3·5	39·41	+3·24	46	−0·6	3·33
Agra (554)	29·221	−·010	..	3·9	74·1	63·5	90·2	−0·9	115	65·2	+1·4	36	57	−2	3·2	25·78	−1·12	43	+5·0	2·16
Mainpuri (516)	29·254	−·006	..	2·3	75·1	65·7	91·9	+1·6	117	68·6	−2·0	35	61	−4	3·6	40·30	+13·23	44	+5·4	7·34
Bareilly (568)	29·214	+·011	..	2·2	72·4	64·9	89·9	+2·4	115	66·4	+1·7	40	68	−5	3·7	46·30	+2·63	52	+5·7	3·07
Roorkee (899)	28·876	+·001	..	2·7	69·9	62·5	87·2	+0·8	114	63·1	+0·9	36	59	−2	3·6	35·41	−6·57	49	+1·3	5·58
Dehra Dun (2,239)	27·552	+·003	..	1·5	65·3	58·6	83·3	+2·1	108	60·4	−0·3	37	68	−2	4·3	67·18	−15·98	85	+4·7	3·24
Punjab, East and North.																				
Delhi (697)	29·082	+·002	..	3·2	74·1	63·7	90·6	..	115	63·4	..	34	59	..	3·9	24·17	−2·67	34	−5·0	4·51
Hissar (725)	29·056	+·004	..	3·5	72·1	61·7(b)	90·4	−0·9	113	63·2	−0·9	32	65(b)	+5	2·0	16·47	+2·00	26	+2·2	2·03
Ambala (892)	28·873	−·003	..	3·1	71·2	62·2	89·5	+1·6	115	64·0	+1·3	37	61	−9	3·5	42·08	+11·59	44	+1·6	5·43
Ludhiana (812)	28·965	+·004	..	2·1	71·3	61·9	89·0	+1·2	115	62·5	−1·5	36	61	−4	2·9	26·25	−2·46	30	−6·3	6·41
Lahore (702)	29·075	+·008	..	1·5	70·7	62·6	88·6	−1·2	115	62·0	0	34	66	−1	3·2	27·44	+7·82	32	+3·2	4·45
Sialkot (830)	28·949	+·007	..	1·6	69·3	61·9	87·5	+0·4	116	62·0	−0·4	33	68	0	3·1	29·36	−1·66	38	−2·5	2·93
Rawalpindi (1,674)	28·116	+·002	..	2·5	68·5	58·2	85·3	+1·2	113	58·4	+0·7	29	55	−10	3·7	34·10	−0·67	48	−0·2	2·00

(a) Mean of 11 months. (b) Mean of 10 months. (c) Mean of 9 months. (d) Mean of 8 months.

N.B.—Elevations in *italics* indicate barometrical determinations.

ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of bar-cistern above sea-level in feet.	Pressure. At 8 hrs. reduced to 32° F. and standard gravity.	Pressure. Departure from normal.	Wind. Mean direction at 8 hrs.	Wind. Mean velocity in miles per hour.	Temperature. Mean 8 hrs. Dry bulb.	Temperature. Mean 8 hrs. Wet bulb.	Temperature. Maximum. Mean.	Temperature. Maximum. Departure from normal.	Temperature. Maximum. Highest during year.	Temperature. Minimum. Mean.	Temperature. Minimum. Departure from normal.	Temperature. Minimum. Lowest during year.	Humidity. Mean 8 hrs.	Humidity. Departure from normal.	Cloud. Mean amount 8 hrs.	Rainfall. Total of the year.	Rainfall. Departure from normal.	Rainfall. Number of rainy days.	Rainfall. Departure from normal.	Rainfall. Heaviest fall during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Punjab, South-West.																				
Khushab (612)	29·169	—·002	..	4·8	72·4	63·2	89·3	—0·2	115	64·1	+0·4	31	58	+3	2·3	10·16	—4·78	20	—3·9	1·26
Lyallpur (605)	29·189	+·025	..	2·5	71·5	62·0	88·1	—0·6	114	62·6	+0·9	34	58	—7	3·0	20·97	+6·56	26	+2·9	2·87
Montgomery (558)	29·218	+·005	..	2·5	71·7	62·5 (a)	89·4	—1·7	114	63·9	—0·3	32	64 (a)	+11	1·9	15·44	+4·88	21	+2·9	4·00
Multan (426)	29·350	+·004	..	2·1	75·1	64·2	93·5	+1·8	117	67·1	+1·2	35	54	—6	2·3	3·95	—3·25	7	—5·8	0·94
Bahawalpur (384)	29,401	..	..	2·7	72·9	64·4	92·3	..	115	64·0	..	30	62	..	2·2	4·09	..	8	..	0·85
Khanpur (297)	29·501	..	..	4·7	73·3	64·7	94·4	..	117	63·9	..	27	61(c)	..	1·8	2·80	..	6	..	1·66
Kashmir.																				
Srinagar (5,204)	24·866	+·011	..	2·2	51·0	(a) 50·2	69·2	+1·5	97	45·1	+1·4	19	(c) 81	—6	5·3	22·14	—3·73	46	—12·6	2·61
Gulmarg (8,569)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dras (10,059)	20·793	+·022	..	3·2	32·5	..	48·8	—0·6	82	25·3	+4·3	—30	..	..	4·4	27·00	+5·48	65	+9·9	2·60
Leh (11,503)	19·688	+·015	..	2·5	38·3	..	56·1(a)	+0·7	81	31·3	+1·7	1	..	..	5·5	3·18	0	12	+2·4	0·32
Skardu (7,505)	22·904	+·059	..	1·0	47·8	..	63·1	+0·5	104	42·0	+1·5	10	..	..	5·4	7·80	+0·84	20	+1·6	0·88
Gilgit (4,890)	25·052	—·056	..	0·3	56·4	50·3	70·7	—2·3	107	51·8	—0·5	26	65	+13	5·5	8·51	+3·70	27	+11·8	1·00
North-West Frontier Province.																				
Peshawar (1,164)	28·637	—·006	..	2·2	69·6	59·4	86·4	+1·7	112	61·0	+0·7	33	55	+3	4·3	10·22	—3·29	26	+0·1	1·20
Dera Ismail Khan (570)	29·217	+·015	..	2·2	72·5	62·1	89·9	+0·2	113	62·5	—0·1	30	54	—11	2·6	7·02	—2·07	11	—5·3	1·65
Miranshah (3,039)	26·833	..	..	2·3	66·3	56·1	80·7	..	104	57·4	..	30	52	..	1·0	13·17	..	21	..	2·12
Baluchistan.																				
Fort Sandeman (4,614)	25·348	+·011	..	2·1	57·1	53·5(c)	78·4	—2·3	103	52·7	—0·1	21	47(c)	—3	1·8	9·89	—1·34	25	—1·3	2·77
Quetta (5,495)	24·650	—·012	..	4·3	51·4	49·5(c)	74·4 (d)	+1·0	103	45·3	—1·8	17	56(d)	+14	3·1	11·04	+1·29	27	+2·8	1·01
Chaman (4,311)	25·622	—·010	..	3·8	61·2	50·1(a)	79·0	+1·0	107	55·5	+1·7	23	38(c)	—10	2·1	7·29	+0·07	20	+0·6	1·41
Kalat (6,495)	23·694	—·037	..	5·7	47·8	.. (b)	72·4	—0·5	99	38·2	+1·0	9	..	..	2·6	7·39	+0·75	20	+1·9	1·71
Dalbandin (2,772)	27·037	—·007	..	2·4	60·4	53·7	86·2	—1·2	116	53·9	—0·3	19	50(b)	+4	1·2	3·11	—0·72	6	—3·9	1·03
Sind.																				
Jacobabad (186)	29·592	+·003	..	3·5	75·2	63·6	95·1	—0·6	119	66·9	+1·2	36	51	—7	1·3	1·11	—2·57	5	—2·5	0·34
Hyderabad (96)	29·706	+·011	..	4·7	76·7	66·3	94·7	+1·4	116	69·2	+1·0	42	54	—6	1·9	2·01	—5·11	5	—4·6	0·45
Karachi (13)	29·804	—·003	..	8·4	75·5	70·6	84·4	+0·2	100	72·0	+0·6	49	76	+2	3·9	0·73	—6·83	2	—7·3	0·21
Rajputana, West																				
Bikaner (762)	29·032	+·025	..	4·9	73·3	61·7	91·0	—1·1	112	63·3	—0·6	36	49	—4	1·8	11·90	+0·11	21	+1·5	2·02
Jodhpur (780)	29·017	—·001	..	3·7	75·0	62·9	93·3	+0·9	114	69·2	+1·4	41	48	0	3·6	18·27	+4·65	26	+7·1	3·56
Rajputana, East.																				
Jaipur (1,431)	28·386	+·014	..	2·9	76·3	63·6	90·9	+0·2	114	66·2	+0·5	37	49	—5	2·5	27·42	+3·07	38	+2·3	4·19
Ajmer (1,011)	28·207	+·007	..	5·1	73·9	62·3	88·2	—0·3	110	65·4	+0·2	37	52	—10	3·3	20·96	+0·31	30	0	2·57
Kotah (843)	28·960	—·001	..	2·9	78·1	65·6	92·8	+0·7	116	70·1	+0·1	42	51	+1	3·7	36·65	+8·42	39	+3·2	3·10
Jhalrapatan (1,053)	28·752	..	..	3·4	74·7	65·0	90·9	..	113	66·8	..	40	59	..	3·5	40·31	..	53	..	4·36

(*a*) Mean of 11 months. (*b*) Mean of 10 months. (*c*) Mean of 9 months. (*d*) Mean of 8 months.

N.B.—Elevations in *italics* indicate barometrical determinations.

ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of bar-cistern above sea-level in feet.	Pressure.		Wind.		Temperature.									Humidity.		Cloud	Rainfall.				
					Mean 8 hrs.		Maximum.			Minimum.											
	At 8 hrs. reduced to 32° F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest during year.	Mean.	Departure from normal.	Lowest during year.	Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Gujarat.																				
Deesa (466)	29·344	—·008	..	6·9	77·7	66·1	96·0	+1·8	116	67·6	+0·7	41	51	—6	3·5	28·92	+4·22	37	+8·3	9·90
Bhuj (343)	29·461	—·012	..	5·7	76·3	67·3	91·9	+0·8	109	59·3	+0·9	43	59	—8	2·6	3·56	—10·83	6	—10·3	1·50
Dwarka (37)	29·792	—·010	..	10·9	78·0	71·9	85·5	+1·1	95	73·8	+0·9	55	73	—4	4·3	13·03	—0·44	9	—7·6	5·55
Rajkot (434)	29·378	—·013	..	7·5	75·3	66·8	93·8	+0·9	111	67·7	+1·6	43	61	—4	4·1	18·90	—7·39	28	—3·2	4·35
Veraval (19)	29·817	+·002	..	7·7	77·9	70·6	86·3	+1·5	101	72·3	+1·0	55	68	—3	3·8	20·41	+1·61	29	+3·7	3·96
Surat (39)	29·790	—·009	..	4·3	77·1	70·8	91·6	+0·1	110	71·6	+1·7	53	71	+1	4·7	29·27	—11·70	53	+11·3	7·36
Bhavnagar (55)	29·777	—·006	..	4·3	76·7	67·7	93·3	—0·3	114	69·4	+0·2	44	59	—5	4·2	37·91	+16·71	38	+3·3	9·21
Ahmedabad (163)	29·664	—·005	..	4·0	78·0	67·9	93·8	—0·8	111	71·5	+0·9	53	57	—2	3·7	32·17	+3·34	43	+8·0	4·83
Central India, West.																				
Neemuch (1,626)	28·194	0	..	5·5	75·1	65·6	88·7	—0·1	110	65·4	+0·9	40	59	+1	3·4	39·40	+19·21	37	+0·8	6·91
Indore (1,823)	27·902	—·008	..	4·0	73·8	63·7	88·0	—0·2	109	65·3	+1·4	41	57	—5	3·7	39·62	+6·50	64	+18·2	3·86
Bhopal (1,643)	29·170	..	..	3·8	75·3	64·5	89·4	..	111	66·7	..	41	56	..	3·7	52·98	..	66	..	4·11
Central India, East.																				
Nowgong (754)	(a) 29·033	—·003	..	2·1	74·3	66·4	(a) 92·8	+3·5	115	65·8	+0·2	37	68	+3	3·8	43·43	+0·69	48	0	3·88
Sutna (1,041)	28·734	—·002	..	3·2	74·9	64·7	91·0	+3·0	114	66·3	+0·4	39	59	—3	4·1	36·65	—8·12	59	+4·1	5·40
Berar.																				
Akola (925)	28·883	—·008	..	4·4	76·7	66·2	93·2	0	115	69·8	+2·4	47	57	+1	2·8	36·71	+5·36	62	+16·6	3·11
Amraoti (1,213)	28·590	—·006	..	5·7	76·8	65·8	92·0	—0·1	115	71·3	+2·1	54	57	0	4·8	57·72	+24·67	70	+22·4	4·26
Central Provinces, West.																				
Khandwa (1,044)	28·761	—·010	..	5·6	75·7	65·6	93·0	+0·9	114	68·1	+1·0	41	58	0	2·9	45·89	+16·26	52	+10·6	6·36
Hoshangabad (992)	28·816	—·006	..	2·9	75·6	65·6	91·2	+0·9	113	68·9	+3·4	44	59	0	4·3	70·56	+21·73	67	+11·7	4·58
Saugor (1,808)	27·986	—·005	..	4·7	75·2	62·7	88·8	+0·9	111	67·4	+0·9	42	51	—4	3·7	60·43	+15·48	73	+17·1	4·19
Jubbulpore (1,327)	28·462	+·007	..	2·7	73·5	64·8	89·5	+1·2	112	66·4	+1·8	42	64	—2	3·7	63·83	+8·72	73	+9·3	5·00
Seoni (2,033)	(a) 27·765	—·014	..	3·4	74·8	64·7	87·7	+0·1	111	66·2	+1·6	42	59	—2	3·9	55·86	+2·64	86	+15·8	4·49
Nagpur (1,017)	28·780	—·004	..	3·7	76·5	65·8	92·6	+0·6	117	69·6	+0·8	46	57	—2	4·3	60·47	+11·50	88	+25·2	3·17
Central Provinces, East.																				
Pendra (2,040)	27·756	—·006	..	2·7	74·0	65·4	(a) 84·3	+0·6	106	66·3	+2·3	43	65	+4	4·5	62·73	+12·67	91	+17·5	3·43
Raipur (970)	29·816	—·004	..	3·5	77·3	68·6	91·6	+1·4	117	70·2	+1·1	47	65	+1	4·1	62·51	+11·68	64	+0·7	9·33
Kanker (1,300)	28·487	..	..	3·7	75·9	68·5	89·9	..	115	68·1	..	43	70	..	4·5	53·70	..	70	..	7·20
Chanda (634)	29·154	—·022	..	4·0	77·5	69·2	93·0	+0·2	117	70·8	+2·2	47	59	—6	3·3	57·36	+5·46	70	+7·5	4·03
Jagdalpur (1,813)	27·988	—·012	..	2·7	73·0	67·4	88·1	+0·8	111	66·6	+0·9	45	76	0	4·3	58·83	—1·74	71	—12·1	8·09

(a) Mean of 11 months.

N. B.—Elevations in *italics* indicate barometrical determinations.

ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of bar-cistern above sea-level in feet.	Pressure.		Wind.		Temperature.									Humidity.		Cloud	Rainfall.				
					Mean 8 hrs.		Maximum.			Minimum.											
	At 8 hours reduced to 32° F. and gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest during year.	Mean.	Departure from normal.	Lowest during year.	Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Konkan.																				
Bombay (37)	29·797	—·013	..	7·1	78·7	73·6	87·8	+1·2	95	74·8	+1·2	63	77	—1	4·3	97·94	+27·31	91	+18·5	9·56
Ratnagiri (307)	29·682	—·007	..	6·7	79·7	72·4	86·4	—0·8	94	74·1	+0·9	64	69	—3	2·9	151·92	+51·94	112	+19·3	8·10
Marmagao (202)	29·667	+·010	..	7·6	79·7	74·3	86·3	..	94	75·6	..	66	77	..	5·4	142·85	+47·93	123	+24·7	8·31
Karwar (44)	29·810	—·004	..	2·7	76·9	73·3	87·0	+0·9	95	73·6	+0·9	61	83	—1	5·1	145·63	+25·51	128	+23·3	9·61
Bombay-Deccan.																				
Malegaon (1,430)	28·393	—·005	..	4·1	76·0	65·3	91·8	—0·4	111	65·9	+0·6	45	56	—1	5·0	21·90	—0·83	38	+3·5	2·37
Ahmadnagar (2,154)	27·693	—·006	..	4·6	74·6	64·2	89·6	0	109	65·8	+1·8	46	57	—3	4·3	34·45	+12·12	46	+9·9	6·98
Poona (1,834)	28·014	+·001	..	3·4	73·6	65·5	88·9	—0·5	108	65·3	+0·6	46	65	0	4·5	26·85	—0·26	52	+5·6	4·70
Sholapur (1,670)	28·262	—·002	..	3·2	76·9	66·4	92·4	+1·0	111	69·6	+1·3	50	57	+2	2·9	26·06	—2·39	47	+5·7	2·02
Bijapur (1,950)	27·900	+·005	..	5·0	75·6	66·5	90·4	—0·2	108	69·1	+1·3	52	62	—3	4·8	22·97	+2·07	45	+8·9	2·37
Belgaum (2,562)	27·336	+·031	..	3·7	71·3	65·6	85·3	+0·7	103	65·3	+1·2	52	73	+2	5·0	55·07	+4·94	94	+13·1	2·65
Hyderabad, North.																				
Aurangabad (1,905)	27·925	—·026	..	6·8	74·9	64·5	89·7	—0·9	109	67·8	+1·7	49	58	+3	5·2	40·86	+13·33	65	+21·4	2·24
Nizamabad (1,248)	28·569	+·001	..	9·2	76·6	68·6	92·8	+0·8	115	70·6	+2·0	47	67	+3	3·9	43·27	+3·19	75	+19·3	2·88
Hyderabad, South.																				
Gulbarga (1,503)	28·332	+·009	..	7·5	75·8	67·9	92·1	—0·7	112	70·8	+1·7	52	62	—1	4·4	26·50	—4·49	59	+10·7	1·83
Raichur (1,311)	28·533	+·012	..	7·9	70·0	71·5	93·4	+1·0	113	73·5	+1·7	58	69	+5	1·4	25·61	—2·39	44	—0·7	1·80
Hyderabad (1,709)	28·124	+·014	..	4·4	75·7	68·3	91·0	+0·6	112	69·1	—0·5	49	69	0	5·1	36·02	+3·75	57	+6·9	3·80
Kanamkonda (877)	28·941	+·003	..	5·1	77·6	70·8	92·1	+0·9	115	72·6	+1·5	53	71	+10	4·5	46·55	+12·13	60	+9·5	4·76
Mysore.																				
Chitaldrug (2,405)	27·465	+·007	..	5·5	74·2	67·0	88·7	+1·7	107	68·8	+1·3	56	73	+3	5·7	23·33	—1·57	44	—3·1	2·56
Bangalore (3,021)	26·883	+·005	..	6·1	71·6	66·7	86·5	+1·9	102	65·7	+1·4	53	77	—1	6·4	25·24	—10·13	50	—8·9	2·24
Mysore (2,518)	27·369	—·001	..	5·0	72·2	67·8	87·3	+1·0	101	67·3	+1·4	55	80	+4	4·6	25·88	—5·52	49	—5·8	3·03
Malabar.																				
Mangalore (72)	29·788	—·002	..	4·4	79·5	74·9	87·4	—0·1	95	74·9	+0·8	65	80	+2	5·4	149·96	+24·28	134	+17·5	9·15
Calicut (27)	29·839	+·004	..	4·1	79·6	75·3	89·9	+2·5	95	75·1	+0·6	68	81	—3	6·6	132·20	+15·04	124	+10·1	4·11
Cochin (9)	29·864	+·006	..	4·4	80·6	75·9	86·1	—1·7	92	76·1	+1·1	68	79	—1	5·9	131·09	+16·53	143	+13·5	4·47
Trivandrum (200)	29·644	—·013	..	5·4	78·8	75·3	84·8	+0·5	92	76·2	+1·1	69	84	+2	5·5	67·25	+2·74	111	+16·2	3·46

N. B.—Elevations in *italics* indicate barometrical determinations.

ANNUAL TABLE D-3 FOR 1931—*concld.*

Abstract of 8 hrs. (local time) observations.

Station and height of bar-cistern above sea-level in feet.	Pressure.		Wind.		Temperature.								Humidity.		Cloud	Rainfall.				
					Mean 8 hrs.		Maximum.			Minimum.										
	At 8 hours reduced to 32° F and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest during year.	Mean.	Departure from normal.	Lowest during year.	Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall during year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Madras, South, East.																				
Pamban (37)	29·808	+·005	..	10·0	82·6	77·0	87·4	—0·3	96	78·7	+1·2	72	77	—3	6·4	61·72	+24·72	52	+5·5	7·51
Madura (463)	29·373	—·008	..	4·9	81·1	72·8	94·2	+0·5	107	76·1	+1·9	66	66	—5	6·3	35·10	+1·52	48	—1·1	3·25
Negapatam (31)	29·814	+·007	..	7·7	82·1	75·5	90·3	+0·1	106	78·1	+1·9	69	73	—3	6·7	67·92	+12·94	51	—4·8	14·44
Trichinopoly (255)	29·592	—·002	..	5·1	81·4	74·0	94·0	+0·3	109	76·1	+1·8	64	69	—3	4·6	42·70	+14·52	56	+9·1	5·34
Coimbatore (1,841)	28·509	—·003	..	2·6	76·5	71·3	88·5	—1·4	101	71·2	+1·5	61	77	—4	5·9	22·78	+0·49	45	+0·6	2·75
Salem (913)	28·927	—·005	..	(a) 5·0	78·1	72·5	92·9	—0·1	109	72·9	+1·7	61	75	—2	4·6	40·55	+1·25	63	—0·4	3·39
Cuddalore (42)	29·806	+·007	..	4·7	81·7	75·8	90·7	+0·2	106	76·1	+1·3	65	75	—5	5·7	76·48	+23·54	60	+3·6	16·79
Vellore (702)	29·125	—·012	..	3·7	78·2	72·1	90·6	—1·3	111	73·4	+1·0	61	74	—3	5·4	51·69	+9·28	64	+7·8	4·78
Madras (22)	29·804	—·010	..	6·5	81·3	75·5	90·8	—0·3	108	75·7	+0·7	63	75	—2	5·6	58·53	+7·79	65	+7·7	6·48
Madras-Deccan.																				
Cuddapah (423)	29·417	+·010	..	5·6	81·4	73·3	94·3	—1·3	113	75·6	+1·1	59	69	+2	5·1	18·90	—12·33	37	—9·1	2·26
Bellary (1,473)	28·368	+·004	..	5·1	78·0	69·4	91·7	—1·6	107	72·2	+1·3	58	65	+4	4·4	12·86	—7·65	25	—10·3	1·92
Kurnool (923)	28·914	+·008	..	6·9	78·8	69·8	92·9	—0·9	112	72·9	+1·7	53	63	—5	5·3	25·66	—0·35	43	—3·7	2·54
Madras Coast, North.																				
Nellore (66)	29·755	+·004	..	3·7	81·0	74·9	93·1	—0·6	114	76·4	+1·2	64	75	—1	5·5	48·99	+11·01	51	+7·0	9·40
Masulipatam (10)	29·813	—·006	..	4·5	80·2	75·1	88·6	—1·9	114	74·9	+0·4	61	78	—3	4·2	47·20	+5·61	68	+13·5	3·81
Cocanada (26)	29·798	+·001	..	5·7	80·1	74·6	89·6	+0·3	113	74·7	—0·3	59	76	—2	6·0	55·45	+16·36	63	+9·1	4·26
Vizagapatam (128)	29·683	+·001	..	4·7	79·5	74·1	86·6	—0·4	104	75·5	+0·1	60	76	+3	5·6	47·46	+10·37	57	+6·1	3·78
Calingapatam (19)	29·789	+·001	..	7·1	79·7	75·2	88·4	—0·3	103	74·5	+0·7	59	81	0	4·7	33·34	—10·87	42	—11·1	2·94
Gopalpur (56)	29·745	+·005	..	8·5	78·3	74·5	86·5	+0·4	102	73·8	+0·5	57	82	+1	4·5	30·40	—14·56	55	—1·2	3·85
Hill Stations, excluding Kashmir and Baluchistan.																				
Maymyo (3,546)	26·438	+·015	..	1·3	66·5	62·9	79·1	+2·4	91	58·5	+2·0	38	82	—4	3·8	40·99	—19·63	77	—13·8	4·35
Shillong (4,920)	26·084	+·012	..	2·7	62·7	57·5	70·5	+0·6	81	53·9	+0·5	31	72	—2	5·6	101·29	+17·37	116	—7·6	10·29
Cherrapunji (4,309)	25·640	+·009	..	5·4	63·7	59·8	69·4	+0·7	83	58·3	+1·2	42	79	—2	6·0	474·21	+50·14	167	+7·8	21·12
Darjiling (7,432)	22·906	+·001	..	3·7	56·1	51·4	59·7	+0·4	74	49·0	+1·3	32	72	—13	5·7	123·24	+0·57	124	+0·8	4·93
Mukteswar (7,592)	(a) 22·805	+·013	..	5·3	55·0	47·6	63·1	—0·5	84	50·5	+2·6	27	59	—2	4·4	55·87	+3·59	80	—1·3	3·12
Mussoorie (6,940)	(c) 23·331	..	..	4·4	55·9	49·2	63·7	..	87	51·6	..	29	66	..	4·7	97·10	—12·59	98	—4·2	11·90
Simla (7,224)	23·070	+·012	..	1·9	56·1	47·6	62·9	+0·5	85	50·5	+1·3	25	54	+2	3·9	39·08	—24·49	88	+0·8	1·58
Murree	..	..	..	4·2	56·4	48·5	65·3	+0·6	90	49·8	—0·6	20	57	+1	3·2	65·15	+5·30	69	—8·1	8·75
Cherat (4,272)	25·662	+·015	..	9·0	61·5	53·6	72·1	—0·5	100	56·6	+0·1	26	51	—1	3·8	25·14	—2·37	38	—4·0	2·64
Parachinar (6,000)	24·417	+·026	..	2·8	57·8	(a) 50·1	69·7	—0·6	93	48·2	+0·8	12	(a) 50	—5	3·9	28·14	—1·38	66	+1·2	1·49
Drosh (4,500)	..	..	..	2·8	54·5	(d) 49·6	70·4	—2·3	103	50·8	—1·1	21	(b) 59	+1	4·2	26·61	+0·86	59	+10·0	3·40
Mount Abu (3,945)	25·984	+·006	..	4·7	69·6	57·8	77·0	+1·2	94	62·1	+0·1	43	47	—7	4·1	78·38	+17·62	52	—1·7	7·07
Pachmarhi (3,528)	26·389	+·012	..	2·7	71·7	61·6	81·0	+1·1	102	61·2	+0·2	38	57	—5	7·0	103·67	+27·15	97	+19·5	6·92
Mercara (3,781)	26·134	+·022	..	(a) 5·7	66·5	64·3	76·4	+0·1	90	62·5	+1·4	53	89	+4	5·6	142·97	+17·51	146	+13·6	5·16
Kodaikanal (7,638)	22·787	+·020	..	6·8	59·0	51·5	66·3	+0·4	75	51·9	+2·4	45	63	—5	4·8	70·71	+8·53	115	+8·4	2·84
Coonoor (5,739)	24·431	..	..	1·9	64·7	57·7	71·5	..	85	55·0	..	40	66	..	5·1	69·82	..	90	..	6·10
Ceylon.																				
Colombo (24)	29·840	+·001	..	4·5	77·6	75·1	86·4	—0·7	92	75·4	+0·2	68	88	+2	6·8	103·70	+19·54	152	+41·0	4·23

(*a*) Mean of 11 months. (*b*) Mean of 10 months. (*c*) Mean of 7 months.

N. B.—Elevations in *italics* indicate barometrical determinations.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931.

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.									Humidity.		Cloud	Rainfall.				
						Mean 8 hrs.		Maximum.			Minimum.											
		At 8 hrs. reduced to 32° F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.	Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Table Island (Bay Islands) (105)	January									Data not available.											
	February																				
	March																				
	April	29·737	—·014	N 39° W	(b) 4·5	86·2	78·7	91·3	+2·0	93·1	80·2	+0·7	77·1	70	—5	3·4	0	—0·93	0	—1·1	0
	May	·640	—·026	S 28° W	9·8	85·9	80·3	90·0	+1·2	94·2	80·9	+1·1	75·5	78	—3	5·8	3·08	—5·67	9	—1·7	0·6
	June	·580	—·031	S 24° W	14·6	83·1	79·9	86·7	+1·1	90·6	78·8	+0·9	72·6	87	—2	8·0	11·86	—3·24	13	—3·8	3·6
	July	·618	+·012	S 26° W	16·0	81·7	80·2	84·3	—0·3	86·7	76·9	—0·4	73·4	93	+2	8·8	9·88	—3·63	18	+0·4	2·0
	August	·546	—·092	S 36° W	18·7	81·2	80·2	84·1	—0·1	87·8	76·8	—0·7	74·0	95	+5	9·5	25·02	+13·55	26	+9·3	4·8
	September	·655	—·012	S 37° W	9·5	81·1	78·7	85·3	+0·9	87·5	77·9	+0·7	74·6	85	—3	6·5	6·13	—5·21	13	—2·6	1·2
	October	·710	—·026	S 17° E	7·7	81·2	77·6	84·9	—0·5	87·0	77·4	—0·4	74·4	85	+1	5·9	15·06	+8·57	16	+5·8	5·0
	November	·791	+·016	N 39° E	6·6	81·3	75·7	84·7	—0·2	86·0	77·3	—0·5	74·2	77	—4	5·0	0·10	—5·55	1	—5·8	0·1
	December	·787	—·027	N 34° E	7·8	80·1	73·9	84·1	+0·8	86·9	77·0	+0·4	70·9	74	—1	5·1	0·13	—2·24	0	—2·3	0·0
	Year*	29·674	—·022	..	10·6	82·4	78·3	86·1	+0·5	94·2	78·1	+0·2	70·9	83	—1	6·4	71·26	—4·05	96	—1·3	5·0
P. V. Fraser (Bay Islands) (8)	January	30·001	—·019	N 16° W	..	74·5	68·6	..	..	..	..	..	..	72	—1	1·9	0	—0·20	0	—0·7	0
	February	29·956	—·007	N 14° W	..	75·9	69·3	..	..	..	..	..	..	70	—3	1·9	0·42	—0·24	1	—0·1	0·4
	March	·895	+·013	S 65° W	..	81·0	76·2	..	..	..	..	..	..	78	—4	2·5	0·93	+0·17	2	+0·8	0·5
	April	·761	—·038	S 41° W	..	83·0	79·6	..	..	..	..	..	..	85	0	4·0	0·32	—0·48	1	—0·4	0·3
	May	·669	—·022	S 26° W	..	85·5	(b) 81·4	..	..	..	..	..	..	83	—2	5·4	2·91	+0·70	3	—1·0	1·0
	June	·535	—·017	S 24° W	..	86·0	82·3	..	..	..	..	..	..	85	—1	6·2	1·57	—0·35	5	—5·7	0·4
	July	·539	+·002	S 49° W	..	82·9	80·5	..	..	..	..	..	..	89	+1	8·6	18·60	+0·83	14	+3·6	5·5
	August	·451	—·124	S 45° W	..	83·1	80·5	..	..	..	..	..	..	89	+1	7·3	10·75	+2·96	15	+3·9	2·1
	September	·674	—·016	S	..	84·7	80·4	..	..	..	..	..	..	81	—5	7·3	3·50	—1·21	7	—1·3	1·2
	October	·800	—·040	N 55° E	..	81·7	77·7	..	..	..	..	..	..	83	+3	6·3	18·54	+15·05	13	+8·2	6·1
	November	·944	+·016	N 37° E	..	78·8	70·2	..	..	..	..	..	..	63	—7	2·9	3·96	+1·71	3	+0·8	1·9
	December	·971	—·046	N 16° E	..	73·9	65·4	..	..	..	..	..	..	61	—5	3·5	0	—0·82	0	—0·3	0
	Year	29·766	—·025	..	..	80·9	76·0	..	..	..	..	..	..	78	—3	4·8	61·50	+22·02	64	+7·8	6·1

(b) Mean of 20 days.

(*) Mean of 9 months.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barcistern above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.									Humidity.		Cloud	Rainfall.				
		At 8 hrs. reduced to 32° F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Mean 8 hrs.		Maximum.			Minimum.				Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
						Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.									
1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Haka (Burma) (6,100).	January								Started	in April.												
	February																					
	March																					
	April	24·156	..	S 48° W	9·7	65·4	54·1	78·3	..	84	58·3	..	50		49	..	2·5	1·00	..	3	..	0·35
	May	·096	..	S 51° W	8·5	63·2	57·1	73·5	..	84	56·9	..	51		71	..	4·1	5·96	..	12	..	1·21
	June	·029	..	S 62° W	7·1	65·7	60·8	75·1	..	85	60·1	..	53		78	..	5·5	11·93	..	14	..	2·79
	July	·007	..	S 67° W	7·2	63·7	62·2	71·3	..	75	60·7	..	58		91	..	8·6	8·24	..	17	..	1·10
	August	23·983	..	N 47° W	4·4	63·7	62·9	69·7	..	76	61·5	..	59		96	..	7·9	28·03	..	24	..	2·37
	September	24·106	..	N 41° W	(h) 4·9	62·2	61·1	69·2	..	76	59·6	..	58		94	..	7·6	17·95	..	21	..	2·30
	October	·185	..	N 9° E	..	59·2	58·4	66·9	..	73	56·7	..	51		93	..	7·4	5·21	..	11	..	1·11
	November	·192	..	S 22° E	..	46·8	44·7	63·7	..	71	44·4	..	37		86	..	1·3	2·48	..	3	..	1·54
	December	·175	..	S 10° W	..	45·9	42·3	59·9	..	65	42·1	..	36		76	..	3·2	2·22	..	4	..	0·87
	Year (x)	24·103	..	..	(u) 7·0	59·5	55·9	69·7	..	85	55·6	..	36		81	..	5·3	83·02	..	109	..	2·79
Kanpetlet (Burma) (6,474).	January																					
	February																					
	March								Started	in May.												
	April																					
	May	23·931	..	..	..	68·4	59·1	73·8	..	82	60·0	..	55		58	..	4·6	8·76	..	15	..	1·75
	June	·856	..	..	..	68·8	62·6	72·7	..	76	62·1	..	59		71	..	6·4	7·45	..	13	..	1·62
	July	·834	..	..	..	66·2	62·6	70·4	..	73	61·0	..	58		88	..	6·2	11·28	..	15	..	2·18
	August	·802	..	..	..	66·7	64·0	69·6	..	73	60·9	..	59		87	..	7·1	21·51	..	27	..	2·05
	September	·936	..	..	..	65·0	62·1	68·8	..	71	59·4	..	57		85	..	6·6	19·08	..	22	..	3·70
	October	24·009	..	..	..	62·1	59·6	66·1	..	70	56·6	..	54		87	..	6·9	15·78	..	22	..	1·60
	November	·021	..	..	..	56·4	52·1	60·9	..	65	47·2	..	42		76	..	5·0	2·94	..	6	..	0·77
	December	·001	..	..	..	54·6	48·8	60·6	..	67	45·5	..	39		67	..	5·1	3·20	..	4	..	2·20
	Year (w)	23·924	..	..	..	63·5	58·9	67·9	..	82	56·6	..	39		77	..	6·0	90.00	..	124	..	3·70

(h) Mean of 23 days. (x) Mean of 9 months. (w) Mean of 8 months. (u) Mean of 6 months.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.								Humidity.		Cloud	Rainfall.				
		At 8 hrs. reduced to 32° F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Mean 8 hrs.		Maximum.			Minimum.			Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
						Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Silmangal (Assam) (50).	January	29·967	—·014	E	..	58·4	57·1	80·4	—0·2	·85	50·5	+2·7	44	91	—1	1·9	0	—0·49	0	—1·0	0
	February	·925	+·027	S 27° W	..	63·3	60·3	81·9	—1·3	·91	54·6	+2·9	43	83	—5	3·4	0·47	—1·08	1	—1·8	0·34
	March	·868	+·033	S 48° E	..	70·0	65·5	91·0	+1·9	·98	60·2	—0·7	48	77	—7	3·2	1·15	—3·10	3	—2·5	0·63
	April	·758	+·010	S 52° E	..	78·7	74·1	93·3	+2·6	101	71·0	+2·5	63	80	—5	5·9	11·62	+0·90	12	+0·4	2·20
	May	·689	+·035	S 83° E	..	75·2	73·1	87·3	—2·9	97	70·7	—1·3	63	90	+5	7·2	19·57	+4·61	22	+7·9	1·91
	June	·564	+·028	S 54° E	..	81·9	78·7	91·3	+1·1	98	77·0	+1·7	70	87	0	9·7	13·54	+3·51	14	—6·1	2·56
	July	·545	+·008	S 50° E	..	80·4	77·8	89·1	—1·2	94	76·7	+0·5	73	89	+1	8·1	9·35	—6·62	19	—2·7	1·52
	August	·509	—·068	S 66° E	..	82·3	79·5	92·0	+1·7	95	77·7	+1·7	73	87	—2	4·4	16·18	+2·94	18	—2·6	4·52
	September	·592	+·028	S 68° E	..	80·9	78·3	89·9	—0·9	94	76·1	+1·1	74	89	+1	5·9	5·62	—6·22	11	—5·2	1·21
	October	·805	+·022	S 63° E	..	78·6	76·0	88·9	—0·7	95	73·7	+3·6	70	89	+1	5·7	8·41	—1·59	12	+3·6	1·75
	November	·914	+·040	N 16° E	..	68·9	66·1	83·4	—3·2	90	59·9	+0·5	54	85	—5	1·1	3·82	+2·91	2	+0·9	2·94
	December	·930	—·009	N	..	60·9	59·9	80·8(a)	—0·1	84	53·5(a)	+4·8	45	94	+2	1·9	0	—0·23	0	—0·6	0
	Year	29·764	+·012	..	..	73·3	70·5	87·4	+0·4	1101	66·8	+1·7	43	87	—1	4·6	90·23	—3·30	114	—9·7	4·52
Kolkhall (Bengal) (22).	January	29·996	+·002	N 11° E	3·1	63·7	61·6	80·5	+2·6	83	60·3	+6·8	57	89	+1	3·2	0	—0·27	0	—0·6	0
	February	·955	+·008	N 7° E	3·0	66·9	63·6	82·7	+1·9	90	63·0	+5·1	53	82	—3	1·9	0·22	—0·91	1	—0·8	0·18
	March	·904	+·035	N 45° E	3·3	74·9	70·2	88·5	+2·1	95	69·6	+1·9	60	79	—5	3·9	0·52	—2·13	2	—1·4	0·24
	April	·790	0	S 10° E	6·4	82·5	78·1 (a)	89·7	+1·2	96	77·9	+4·2	68	81	0	4·9	0·06	—4·84	4	—2·3	0·75
	May	·707	+·006	S 31° E	4·6	81·2	77·9	87·5	—1·6	93	(a) 75·5	—0·4	66	85	+3	6·8	12·52	+1·12	16	+5·4	2·20
	June	·589	+·003	S 32° E	7·0	84·4	81·1	89·2	+2·3	94	79·9	+2·6	72	85	—3	7·4	10·42	—11·07	16	—2·6	1·45
	July	·578	+·012	S 77° E	7·9	80·9	79·0	85·7	—0·1	90	78·3	+0·6	76	91	+1	8·5	19·89	—4·46	26	+3·4	4·78
	August	·527	—·037	S 37° E	8·0	81·7	79·3	87·3	+1·7	89	79·4	+2·0	77	89	—1	8·3	15·58	—10·62	23	—0·4	2·34
	September	·721	+·008	S 43° E	4·9	81·6	79·3	87·2	+0·6	92	79·1	+1·6	75	89	—1	7·7	11·58	—5·05	10	—5·9	2·24
	October	·810	+·003	N 59° E	3·2	80·0	77·4	87·0	+0·7	91	76·8	+2·9	73	89	+1	5·9	4·32	—4·04	10	+2·4	0·81
	November	·953	+·023	N 9° E	3·0	72·0	68·5	82·7	—0·3	87	67·0	+2·7	62	83	—4	2·7	0·39	—1·35	1	—0·8	0·34
	December	·972	—·019	N 2° W	3·0	65·2	62·6	80·4	+2·4	84	61·2	+6·3	55	86	—1	2·9	0·01	—0·27	0	—0·4	0·01
	Year	29·794	—·001	..	4·8	76·3	73·2	85·7	+1·1	96	72·3	+3·0	53	86	—1	5·3	77·51	—43·40	109	—4·0	4·78

(a) Mean of 30 days.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.								Humidity.		Cloud.	Rainfall.				
						Mean 8 hrs.		Maximum.			Minimum.										
		At 8 hrs. reduced to 32° F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs	Mean velocity in miles per hour.	Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.	Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Midnapore (Bengal) (149).	January	29·882	+·005	N 7° W	1·8	62·5	58·4	83·4	+2·6	90	58·4	+2·4	52	·77	+6	2·8	0·20	—0·26	1	+0·1	0·20
	February	·837	+·021	S 82° E	2·6	66·7	63·0	88·4	—2·1	92	62·5	+1·4	52	81	+13	4·0	5·99	+4·79	6	+4·2	2·60
	March	·763	+·042	S 23° W	2·5	74·8	69·3	92·3	—2·4	102	68·9	—0·4	60	74	+7	4·0	1·54	+0·11	3	+0·5	0·60
	April	·610	—·005	S	4·0	82·8	76·9	103·4	+2·8	112	77·4	+1·5	73	75	+5	3·4	0·77	—1·10	2	—1·5	0·46
	May	·512	—·005	S 6° E	4·8	85·1	78·6	99·5	0	109	78·8	+0·6	72	74	0	4·6	3·69	—1·63	7	—0·3	1·21
	June	·400	—·007	S 0° E	4·3	86·4	82·4	100·8	+6·9	114	81·8	+2·5	75	84	+2	6·5	3·50	—7·09	6	—7·0	1·27
	July	·394	+·016	S	2·8	81·7	78·9	88·5	—1·6	96	78·6	—0·2	76	87	+2	9·1	18·83	+6·30	18	+2·1	4·09
	August	·338	—·089	S 49° E	2·5	82·7	80·2	89·6	+0·2	94	80·1	+1·8	76	89	+2	8·8	6·73	—5·49	15	—1·4	1·05
	September	·559	+·016	S 38° E	2·2	83·8	80·0	90·1	+0·4	95	79·1	+1·2	77	85	—1	7·4	6·92	—1·83	13	+0·8	1·39
	October	·702	+·003	N 54° E	2·2(a)	77·9	75·6	86·9	—2·5	93	74·7	+1·3	69	91	+11	6·9	7·38	+3·74	10	+4·6	2·50
	November	·837	+·022	N 32° E	1·3	67·6	64·6	83·2	—1·4	88	63·2	—0·3	57	84	+13	3·4	1·27	+0·39	2	+0·9	1·09
	December	·868	—·016	N 15° W	1·4	61·6	57·8	79·6	—0·1	84	56·1	+0·9	49	80	+12	2·7	0	—0·25	0	—0·8	0
	Year	29·642	+·002	..	2·7	76·1	72·2	90·0	+0·2	114	71·6	+1·1	49	82	+6	5·3	56·82	—2·22	83	+2·7	4·09
Khulna (Bengal) (16).	January	30·005	..	N	1·4	64·8	61·0	81·9	..	88	57·8	...	53	81	...	1·9	0·01	..	0	..	0·01
	February	29·972	..	N 45° W	1·2	67·7	63·3	83·1	..	91	61·6	..	50	77	..	3·3	3·07	..	4	..	1·76
	March	·903	..	Calm	1·1	75·2	70·3	90·9	..	98	67·5	..	57	77	..	3·1	1·98	..	2	..	1·02
	April	·769	..	S 5 W	1·1	82·3	73·3	94·6	..	99	76·8	..	67	83	..	4·6	0·85	..	2	..	0·62
	May	·631	..	S 27° E	2·0	83·5	78·9	91·7	..	96	76·9	..	68	81	..	6·3	9·75	..	9	..	2·13
	June	·566	..	S 3° E	0·9	85·6	81·8	92·5	..	97	80·5	..	71	84	..	6·5	6·57	..	12	..	2·66
	July	·551	..	S 3° E	3·2	82·4	79·6	87·5	..	91	78·5	..	75	87	..	8·7	18·87	..	20	..	2·14
	August	·500	..	S 50° E	4·7	83·0	80·1	88·7	..	92	79·7	..	75	87	..	8·0	18·48	..	21	..	4·36
	September	·712	..	S 35° E	3·3	83·3	80·0	89·0	..	94	78·8	..	75	85	..	7·7	8·89	..	15	..	1·41
	October	·845	..	N 55° E	2·0	80·9	77·7	87·3	..	93	76·4	..	72	87	..	6·5	8·52	..	11	..	2·36
	November	·969	..	N 14° E	2·0	73·0	68·6	82·4	..	86	65·4	..	59	79	..	2·2	1·09	..	2	..	0·82
	December	·992	..	N 20° W	2·3	65·1	61·1	79·4	..	83	58·5	..	51	78	..	2·1	0·05	..	0	..	0·05
	Year	29·789	..	..	2·2	77·2	73·4	87·4	..	99	71·5	..	50	82	.	5·1	78·13	..	104	..	4·36

(a) Mean of 30 days.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station, and height of barometer above sea-level in feet.	Month.	Pressure. At 8 hrs. reduced to 32° F and standard gravity.	Pressure. Departure from normal.	Wind. Mean direction at 8 hrs.	Wind. Mean velocity in miles per hour.	Temperature. Mean 8 hrs. Dry bulb.	Temperature. Mean 8 hrs. Wet bulb.	Temperature. Maximum. Mean.	Temperature. Maximum. Departure from normal.	Temperature. Maximum. Highest in month or year.	Temperature. Minimum. Mean.	Temperature. Minimum. Departure from normal.	Temperature. Minimum. Lowest in month or year.	Humidity. Mean 8 hrs.	Humidity. Departure from normal.	Cloud. Mean amount 8 hrs.	Rainfall. Total of the month or year.	Rainfall. Departure from normal.	Rainfall. Number of rainy days.	Rainfall. Departure from normal.	Rainfall. Heaviest fall in month or year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Satkhira (Bengal).	January	30·008	..	N 6° W	1·5	60·0	58·6	83·6	..	89	54·6	..	49	91	..	1·4	0·02	--	0	--	0·7
	February	29·972	..	N 80° E	2·1	64·8	62·6	84·4	..	93	59·6	..	46	89	..	2·3	2·08	--	6	--	0·72
	March	·901	..	S 82° W	2·4	75·9	70·9	92·6	..	99	66·5	..	56	77	..	2·5	1·11	..	1	--	1·03
	April	·759	..	S 35° W	4·3	83·9	79·2	96·7	..	104	76·7	..	65	81	..	4·3	5·78	..	3	--	3·87
	May	·668	..	S 9° W	4·5	84·7	80·2	93·8	..	99	76·8	..	67	81	..	6·2	14·63	..	10	--	2·89
	June	·556	..	S 1° W	3·6	86·5	82·6	95·0	..	101	80·2	..	72	84	..	5·5	7·31	..	11	--	1·38
	July	·545	..	S 32° W	3·2	82·4	80·2	88·6	..	92	78·2	..	75	91	..	8·4	16·50	--	20	..	2·05
	August	·491	..	S 35° E	3·3	82·8	80·7	89·5	..	94	79·2	..	76	91	..	8·3	12·34	--	24	--	3·14
	September	·703	..	S 45° E	2·2	83·7	80·5	90·3	..	94	78·5	--	73	87	..	7·3	6·21	..	10	..	1·42
	October	·840	..	N 45° E	2·0	79·9	77·6	88·4	..	95	75·3	..	69	89	--	6·7	6·79	--	12	..	1·73
	November	·972	..	N 18° E	1·3	69·5	67·9	84·0	..	89	63·8	..	58	92	--	3·0	2·45	..	4	--	1·36
	December	·997	..	N 4° W	1·2	61·3	59·6	80·9	--	84	55·9	--	47	91	..	1·8	0·08	..	0	..	0·08
	Year	29·784	..	..	2·6	76·3	73·4	89·0	..	104	70·4	..	46	87	--	4·8	75·30	..	101	..	3·87
Asansol (Bengal) (414).	January	29·605	..	..	..	69·1	56·2	80·2	+2·1	86	55·2	+1·3	51	76	+1	2·7	0·12	—0·38	1	—0·2	0·12
	February	·551	..	(a) N 84° W	(g) 3·8	64·4	60·6	78·9	—3·5	91	59·9	+2·4	48	78	+10	4·8	3·93	+3·03	9	+7·3	1·40
	March	·482	..	N 87° W	3·7	71·8	65·3	90·2	—3·1	104	64·0	—2·6	56	60	+2	3·0	0·64	—0·56	2	—0·2	0·37
	April	·321	..	S 17° W	3·8	82·8	73·7	104·5	+2·7	111	75·5	+0·5	67	64	+2	2·6	1·29	—0·08	1	—1·6	1·21
	May	·233	..	S 33° E	5·7	84·0	77·8	101·3	+0·2	113	77·5	—0·3	72	73	+1	4·5	2·77	—1·27	3	—2·3	1·75
	June	·122	..	S	5·1	86·9	78·9	102·9	+7·4	114	81·0	+2·1	76	69	—14	5·1	2·67	—7·35	7	—5·5	0·70
	July	·112	..	S 17 W	4·0	81·3	78·5	89·6	—0·6	97	77·9	—0·4	75	87	—2	7·3	20·69	+8·73	20	+4·0	6·60
	August	·072	..	S 66° E	4·1	82·3	79·9	89·1	—0·2	92	79·1	+1·1	77	89	—2	7·6	8·87	—2·47	18	+2·0	1·43
	September	·280	..	S 24° E	3·3	81·8	78·7	89·4	—0·4	93	77·8	+0·5	76	87	—2	6·6	10·05	+1·72	13	+1·5	2·50
	October	·437	..	N 31° E	3·0	77·9	74·8	87·5	—1·7	93	73·2	+1·3	66	86	+3	5·6	3·98	+1·20	4	+0·1	2·41
	November	·567	..	N 63° W	3·0	66·8	63·1	82·9	—0·9	88	60·7	—0·5	55	81	+4	2·3	2·06	+1·51	2	+1·2	1·30
	December (a)	·600	..	N 76° W	3·1	60·5	56·1	79·0	+0·8	84	54·6	+1·1	47	74	0	1·4	0·16	+0·06	1	+0·8	0·15
	Year	29·365	..	..	(z) 3·9	75·1	70·1	89·6	+0·2	114	69·7	+0·5	47	77	0	4·5	57·23	+4·20	81	+7·1	6·60

(a) Mean of 30 days.

(g) Mean of 14 days.

(z) Mean of 11 months.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.									Humidity.		Cloud.	Rainfall.				
						Mean 8 hrs.		Maximum.			Minimum.											
		At 8 hrs. reduced to 32° F and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.	Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	January	26·065	..	N 51° W	6·4	51·4	49·3	60·6	..	65	48·7	..	46	87	..	3·6	0·05	..	0	..	0·03
	February	·000	..	N 50° W	6·2	53·0	50·1	61·0	..	70	48·3	..	43	81	..	3·4	0·37	..	2	..	0·19
	March	·010	..	N 61° W	8·0	59·5	52·8	69·1	..	80	55·0	..	46	64	..	2·5	0·41	..	1	..	0·32
	April	25·956	..	N 45° W	8·3	65·2	60·9	73·7	..	78	60·6	..	51	77	..	2·2	4·61	..	9	..	1·00
	May	·920	..	S 37° W	7·3	66·7	63·9	72·7		78	61·5	..	55	85	..	4·3	7·06	..	14	..	1·53
	June	·829	..	S 76° E	6·4	70·7	68·6	76·4	..	87	66·6	..	60	90	..	5·1	8·23	..	11	..	1·80
ulimpong (Bengal) (3,933).	July	·751	..	S 45° E	4·5	69·5	66·0	73·9	..	77	67·2	..	66	97	..	8·4	27·63	..	27	..	2·96
	August	·768	..	N 45° W	5·2	71·9	70·5	76·9	..	82	68·2	..	67	93	..	7·1	17·63	..	18	..	4·02
	September	·900	..	N 34° W	5·5	68·3	67·7	73·3	..	77	65·6	..	62	97	..	7·9	24·13	..	22	..	5·60
	October	26·029	..	N 55° W	5·9	66·8	63·6	74·0	..	78	62·0	..	57	85	..	2·9	2·54	..	4	..	1·16
	November	25·991	..	N 51° W	6·1	58·8	55·6	66·3	..	70	53·7	..	51	83	..	2·5	0·59	..	1	..	0·59
	December	26·063	..	N 45° W	6·2	52·5	48·6	62·8	..	67	48·1	..	44	75	..	2·4	0	..	0	..	0
	Year	25·940	..	..	6·4	62·9	60·1	70·1	..	87	58·8	..	43	84	..	4·4	93·25	..	109	..	5·60
	January	29·991	—·011	N 2° W	6·2	38·6	62·9	82·6	+2·3	89	64·9	+1·4	60	72	—11	1·7	0	—0·30	0	—0·5	0
	February	·944	+·003	N 14° W	8·5	74·0	69·9	82·3	—0·9	85	70·1	+1·0	63	81	0	3·4	0·27	—0·59	1	0	0·19
	March	·880	+·021	S 48° W	12·7	80·6	76·4	86·1	—0·4	92	77·6	+2·3	70	82	—1	4·2	0·09	—0·46	0	—1·1	0·09
	April	·757	—·011	S 37° W	14·6	81·4	79·0	85·5	—2·3	88	79·3	+0·7	75	89	+4	5·4	0	—0·62	0	—1·3	0
	May	·650	—·010	S 21° W	16·0	84·3	81·3	88·2	—1·7	92	81·1	+0·3	69	87	+2	6·1	3·42	+0·59	4	+0·6	1·48
	June	·528	—·009	S 23° W	12·6	86·7	82·5	90·2	+1·2	93	83·7	+3·1	78	84	—1	8·2	2·19	—5·12	3	—5·1	1·26
uri (Orissa) (20).	July	·545	+·018	S 47° W	14·4	83·7	80·1	87·2	—0·5	97	80·3	+0·5	75	85	—1	8·6	6·16	—3·87	8	—3·9	2·69
	August	·489	—·081	S 60° W	11·7	83·4	80·0	87·5	—0·3	96	80·6	+1·1	77	85	—1	8·5	13·66	+1·35	13	0	4·53
	September	·656	—·015	S 18° W	8·5	83·5	80·0	88·2	—0·7	90	80·5	+0·8	77	85	+1	6·8	9·79	+0·96	14	+2·5	2·27
	October	·787	—·038	N 13° E	8·3	80·1	77·0	85·8	—3·4	90	77·0	—0·1	74	87	+5	6·4	17·31	+10·47	19	+11·9	3·17
	November	·954	+·015	N 15° E	4·6	73·2	69·2	83·8	—1·1	87	69·2	0	64	81	+ 2	2·6	3·55	—0·17	3	+0·6	2·45
	December	·983	—·025	N 8° E	5·9	67·0	61·7	80·4	—0·3	83	63·1	+1·0	60	72	—6	2·1	0·08	—0·24	0	—0·4	0·06
	Year	29·764	—·011	..	10·3	78·9	75·0	85·7	—0·6	97	75·6	+1·0	60	83	0	5·3	56·80	+1·94	65	+3·3	4·53

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station, and height of barometer above sea level in feet.	Month.	Pressure.		Wind.		Temperature.									Humidity.		Cloud.	Rainfall.				
						Mean 8 hrs.		Maximum.			Minimum.											
		At 8 hrs. reduced to 32° F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.	Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Angul (Orissa) (455)	January	29·570	+·003	N 66° W	3·0	61·4	58·1	84·5	+2·7	90	56·8	+1·2	53	80	+4	2·4	0·27	−0·19	1	+0·1	0·21
	February	·513	+·020	N 13° E	4·0	68·6	65·4	87·5	+0·9	96	64·3	+3·0	56	84	+11	4·0	2·09	+0·69	2	−0·3	1·19
	March	·454	+·031	N 67° W	3·6 (d)	74·7	68·1	95·6	+0·6	104	67·7	+0·1	62	70	+5	3·4	0·33	−0·66	1	−1·2	0·26
	April	·316	−·007	N 72° E	3·1	82·8	74·9	105·7	+4·3	113	77·0	+2·6	70	67	+1	2·0	1·07	−0·23	3	+0·3	0·45
	May	·205	−·006	N 86° E	5·4	85·8	77·5	105·6	+2·6	113	80·2	+1·8	75	66	−3	4·8	1·91	−0·07	5	+0·3	1·02
	June	·107	+·016	N 45° E	3·6	87·6	78·5	103·3	+0·4	114	81·3	+3·3	75	66	−13	5·8	4·12	−4·73	6	−7·1	2·94
	July	·116	+·028	N 67° W	3·7	81·0	77·4	89·2	+0·7	94	77·0 (k)	−0·3	72	85	+2	8·7	11·40	+0·41	12	−2·4	3·00
	August	·058	−·070	N 79° W	4·2	80·4	77·8	88·0	+0·7	95	77·5	+0·6	74	89	+4	8·2	32·62	+21·72	21	+6·5	10·11
	September	·237	+·001	N	3·2	80·5	77·8	89·2	+0·4	93	77·5	+1·2	76	89	+4	7·3	7·26	+1·18	12	+1·5	2·07
	October	·372	−·018	N 24° W	3·5	77·3	75·0	86·1	−2·9	91	74·3	+2·9	69	88	+8	7·3	7·68	+4·02	14	+8·7	1·93
	November	·533	+·033	N 65° W	2·9	67·3	64·9	82·6	−1·5	88	62·8	+0·4	57	87	+11	3·7	1·46	+0·35	2	+0·8	1·08
	December	·562	−·005	N 66° W	3·0	60·2	57·4	78·9	−0·7	81	55·3	+0·9	50	82	+7	2·5	0	−0·21	0	−0·5	0
	Year	29·337	+·002	..	3·6	75·6	71·1	91·3	+1·4	114	71·0	+1·5	50	79	+8	5·0	70·11	+22·28	79	+6·7	10·11
Daltonganj (Ch-Nagpur) (725)	January	29·304	+·008	N 74° E	1·2	59·0	54·9	78·9 (a)	+2·7	86	52·1	+4·8	45	76	−8	1·1	0·02	−0·84	0	−1·8	0·02
	February	·288	+·006	N 80° E	2·6	62·0	57·6	74·8	−5·1	89	57·3	+5·8	45	83	+5	4·4	3·90	+2·71	9	+6·7	0·98
	March	·180	+·043	N 45° E	2·8	69·1	61·3	89·1	−1·4	109	60·6	+1·2	51	61	+1	2·3	0·93	+0·24	4	+2·2	0·30
	April	·017	−·006	N 79° E	3·3	84·0	65·6	104·0	+2·6	111	71·5	+1·4	65	33	−13	0·9	0	−0·41	0	−0·9	0
	May	28·890	−·022	S 86° E	5·1	91·7	72·6	107·3	+1·0	112	80·4	+1·7	73	37	−12	2·0	0·12	−0·50	1	−0·4	0·10
	June	·798	+·010	S 22° W	3·9	91·0	74·8	104·6	+4·8	114	81·2	+0·6	70	45	−22	3·3	1·02	−4·70	6	−3·0	0·68
	July	·789	+·010	S 58° W	3·5	82·4	78·0	90·5	−1·0	104	78·0	−0·2	74	81	−2	7·4	18·57	+6·71	20	+5·8	2·94
	August	·769	−·001	N 85° E	3·5	82·2	78·9	88·6	−0·5	93	78·5	+1·6	76	85	−2	6·5	16·12	+2·96	17	+0·5	3·81
	September	·966	+·010	S 85° E	3·6	81·9	77·3	89·8	−0·4	95	77·0	+1·0	75	81	−3	4·9	7·41	+0·72	12	+3·1	1·15
	October	29·132	+·008	S 75° E	3·6	76·4	72·2	86·4	−3·2	92	71·3	+5·3	61	82	+1	3·1	2·06	+0·07	8	+4·8	0·64
	November	·274	+·021	N 54° E	1·9	63·9	60·1	81·2	−1·8	86	56·7	+2·6	49	78	−2	1·2	1·03	+0·66	1	+0·4	0·96
	December	·315	+·007	N 81° E	2·5	55·7	52·4	76·1	−0·5	82	49·1	+3·5	41	77	−6	1·2	0·15	−0·04	1	+0·6	0·11
	Year	29·056	+·003	..	3·1	74·9	67·1	89·3	−0·2	114	67·8	+2·5	41	68	−5	3·2	52·23	+7·58	79	+17·5	3·81

(a) Mean of 30 days. (d) Mean of 27 days. (k) Mean of 20 days.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barcistern above sea-level in feet.	Month.	Pressure. At 8 hrs. reduced to 32° F and standard gravity.	Pressure. Departure from normal.	Wind. Mean direction at 8 hrs	Wind. Mean velocity in miles per hour.	Temperature. Mean 8 hrs. Dry bulb.	Temperature. Mean 8 hrs. Wet bulb.	Temperature. Maximum. Mean.	Temperature. Maximum. Departure from normal.	Temperature. Maximum. Highest in month or year.	Temperature. Minimum. Mean.	Temperature. Minimum. Departure from normal.	Temperature. Minimum. Lowest in month or year.	Humidity. Mean 8 hrs.	Humidity. Departure from normal.	Cloud. Mean amount 8 hrs.	Rainfall. Total of the month or year.	Rainfall. Departure from normal.	Rainfall. Number of rainy days.	Rainfall. Departure from normal.	Rainfall. Heaviest fall in month or year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Pusa (Bihar) (188).	January	29·812	—·040	S 51° W	1·3	53·9	52·6	76·9	+2·1	82	50·7	+2·9	44	90	+2	1·7	0·10	—0·08	0	—0·6	0·09
	February	·757	—·015	S 45° W	2·3	59·4	57·0	77·2	—2·0	90	55·0	+4·0	44	85	+4	4·2	0·95	+0·17	2	+0·4	0·66
	March	·677	+·002	S 7° W	2·6	69·5	61·1	92·1	+2·1	104	60·9	+2·0	51	59	—2	2·8	0·26	—0·22	1	—0·3	0·11
	April	·520	—·052	N 83° E	3·6	83·1	71·5	103·3	+5·5	108	73·8	+5·3	66	54	—3	0·9	0	—0·76	0	—1·6	0
	May	·461	—·017	N 77° E	5·0	84·1	75·6	101·0	+1·7	111	77·6	+3·1	71	66	—1	4·1	1·02	—0·83	2	—1·1	0·59
	June	·357	+·004	N 83° E	4·0	87·5	80·4	103·5	+3·9	113	(b) 81·5	+4·1	76	72	—9	5·2	1·41	—7·47	5	—4·2	0·56
	July	(c) ·356	+·018	N 79° E	2·5	82·4	80·4	90·1	—1·9	97	79·9	+1·6	77	91	+3	6·3	27·87	+16·73	24	+9·9	3·81
	August	·334	—·054	N 81° E	2·8	84·8	82·4	91·4	+1·4	95	82·0	+4·0	78	89	+1	3·5	5·05	—9·89	8	—6·1	1·68
	September	·534	+·035	E	2·7	81·3	79·5	89·6	—0·8	95	79·2	+2·1	75	89	+3	7·8	4·06	—3·58	6	—3·4	1·02
	October	·699	+·033	N 60° E	1·9	77·2	71·3	88·3	—1·3	94	70·4	0	65	73	—10	3·5	2·49	+1·00	1	—1·4	2·45
	November	·824	+·033	S 72° W	1·0	63·4	61·8	82·2	—1·2	87	59·8	+1·9	53	91	+7	1·3	0·26	—0·10	1	+0·6	0·23
	December	·855	+·002	S 66° W	1·1	56·0	54·9	73·6	—2·2	81	53·1	+4·3	45	93	+6	0	0·03	—0·07	0	—0·2	0·03
	Year	29·599	—·004	..	2·6	73·6	69·0	89·1	+1·1	113	68·7	+2·0	44	79	0	3·8	43·50	—5·05	50	—8·1	6·81
Sabour (Bihar) (122).	January	Started on the 1st of June.																			
	February																				
	March																				
	April																				
	May																				
	June	29·429	..	S 60° E	6·3	86·9	79·0	101·1	..	115	80·9	..	75	69	..	4·7	3·45	..	4	..	1·66
	July	·406	..	S 16° E	5·8	81·8	79·5	89·1	..	95	78·5	..	75	89	..	8·4	12·13	..	19	..	2·06
	August	·384	..	S 58° E	6·0	83·8	81·1	90·0	..	93	80·3	..	76	89	..	6·2	9·91	..	11	..	2·32
	September	·587	..	S 36° E	5·0	81·7	79·2	88·8	..	93	78·4	..	74	89	..	6·0	11·48	..	13	..	2·77
	October	(a) ·746	..	S 27° E	3·6	78·0	74·7	87·0	..	92	72·5	..	62	84	..	4·7	0·71	..	3	..	0·36
	November	·876	..	S 56° W	2·5	65·1	62·1	81·6	..	86	56·4	..	50	84	..	1·9	0·05	..	0	..	0·03
	December	·903	..	S 61° W	2·5	55·2	54·2	76·2	..	80	48·9	..	39	93	..	2·4	0·12	..	1	..	0·12
	Year (d)	29·619	..	..	4·5	76·1	72·8	87·7	..	115	70·8	..	39	85	..	4·9	39·66	..	58	..	2·77

(a) Mean of 30 days. (b) Mean of 29 days. (c) Mean of 9 months. (d) Mean of 7 months.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.								Humidity.		Cloud.	Rainfall.				
		At 8 hrs. reduced to 32° F and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Mean 8 hrs.		Maximum.			Minimum.			Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
						Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Hansi (Punjab) (711).	January	29·316	..	S 82° W	1·3	48·4	44·8	75·5	..	85	..	..	..	74	..	2·3	0·07	..	0	..	0·05
	February	·275	..	N 49° W	2·0	50·2	46·4	71·3	..	80	43·2	..	33	72	..	3·7	0·27	..	1	..	0·15
	March	·203	..	N 74° W	1·7	65·8	56·0	87·3	..	105	..	..	..	49	..	1·6	0·51	..	1	..	0·47
	April	·034	..	S 75° W	2·0	82·8	64·6	102·6	..	111	..	..	..	33	..	0·7	0	..	0	..	0
	May	28·904	..	N 85° W	(b) 2·0	90·4	68·5	107·5	..	115	..	..	..	28	..	1·3	0·38	..	2	..	0·27
	June	·811	..	N 60° W	2·3	93·1	72·2	108·3	..	115	(c) 81·4	..	73	32	..	2·5	0·31	..	2	..	0·18
	July	·755	..	S 31° W	2·6	87·5	78·3	98·6	..	113	79·7	..	72	65	..	3·5	6·38	..	11	..	2·16
	August	·777	..	S 60° E	1·9	86·7	81·1	97·0	..	103	80·3	..	75	78	..	3·7	5·24	..	7	..	2·20
	September	·966	..	S 56° W	1·3	82·1	75·7	95·8	..	103	74·4	..	71	73	..	2·2	3·66	..	4	..	1·43
	October	29·147	..	S 87° E	1·0	77·6	69·5	93·6	..	102	66·9	..	56	65	..	1·3	1·94	..	2	..	1·33
	November	·287	..	N 72° W	0·6	64·5	55·1	86·5	..	92	50·5	..	44	51	..	1·0	0	..	0	..	0
	December	·327	..	N 45° W	1·0	52·6	47·2	78·3	..	92	43·9	..	36	63	..	1·3	0·02	..	0	..	0·02
	Year	29·067	..	—	1·6	73·5	63·3	91·9	..	115	(g) 55·0	..	33	57	..	2·1	18·76	..	30	..	2·20
Patiala (Punjab (518).	January (a)	29·229	+·043	N 4° W	(b) 1·8	49·4	40·7	59·1	—9·0	77	45·9	+1·9	40	82	+2	3·5	0·20	—1·13	1	—1·6	0·15
	February (d)	·193	+·074	N 11° W	(c) 1·6	51·6	47·7	67·1	—4·5	74	47·1	—0·8	40	74	—1	5·2	1·46	+0·20	6	+3·9	0·50
	March (a)	·123	+·089	N 45° W	(b) 2·6	62·4	55·1	82·7	+0·4	101	55·8	—0·8	47	60	—3	1·5	2·15	+0·93	2	—0·4	1·90
	April (d)	28·946	+·020	N 21° E	(f) 1·9	78·8	64·8	100·1	+6·3	110	(e) 68·0	+1·4	60	45	—4	2·9	0	—0·59	0	—1·5	0
	May	·818	+·006	N 45° E	1·9	86·2	72·6	105·8	+3·7	113	75·8	—0·2	67	51	+5	1·7	0·68	—0·01	2	+0·3	0·34
	June (c)	·740	+·047	N 1° W	(c) 2·1	89·7	74·9	107·3	+5·5	115	79·3	—1·6	72	48	—11	3·0	0·38	—2·14	2	—1·5	0·20
	July (a)	·716	+·043	S 75° E	(b) 2·0	84·2	78·2	96·9	+1·7	114	78·6	—1·3	70	76	—1	5·4	3·22	+2·15	7	—1·1	2·60
	August (b)	·718	—·016	E	(d) 1·7	85·1	80·8	95·0	+2·2	103	79·7	+0·9	68	82	+1	5·7	5·52	—1·17	5	—3·2	3·86
	September (c)	·885	+·021	S 76° E	(c) 2·6	81·1	76·1	95·1	+2·0	101	75·3	+0·6	71	70	+5	2·7	1·83	—2·71	4	—0·5	0·65
	October (b)	29·093	+·066	N 20° E	(c) 1·8	73·8	68·0	90·9	—0·2	97	67·1	+4·1	57	73	+9	1·4	0·53	—0·19	2	+1·1	0·28
	November (b)	·204	+·052	N 25° E	(c) 1·8	61·7	54·5	84·3	+3·1	90	52·2	+0·6	46	62	—5	0·9	0	—0·15	0	—0·3	0
	December (b)	·237	+·036	N 38° W	(d) 1·8	52·6	47·6	75·6	+4·5	80	45·7	+1·4	40	68	—10	1·3	0	—0·33	0	—1·1	0
	Year	28·992	+·040	—	2·0	71·4	63·9	88·3	+1·3	115	64·2	+0·5	40	67	—1	2·9	20·97	—5·14	31	—5·9	3·86

(a) Mean of 30 days. (b) Mean of 29 days. (c) Mean of 28 days. (d) Mean of 27 days. (e) Mean of 26 days. (f) Mean of 19 days. (g) Mean of 8 months.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure. At 8 hrs. reduced to 32°F. and standard gravity.	Pressure. Departure from normal.	Wind. Mean direction at 8 hrs.	Wind. Mean velocity in miles per hour.	Temperature. Mean 8 hrs. Dry bulb.	Temperature. Mean 8 hrs. Wet bulb.	Temperature. Maximum. Mean.	Temperature. Maximum. Departure from normal.	Temperature. Maximum. Highest in month or year.	Temperature. Minimum. Mean.	Temperature. Minimum. Departure from normal.	Temperature. Minimum. Lowest in month or year.	Humidity. Mean 8 hrs.	Humidity. Departure from normal.	Cloud. Mean amount 8 hrs.	Rainfall. Total of the month or year.	Rainfall. Departure from normal.	Rainfall. Number of rainy days.	Rainfall. Departure from normal.	Rainfall. Heaviest fall in month or year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Muzaffarabad (Kashmir) (2,843).	January	27·675	—·005	Calm	1·5	47·1	43·4	60·9	—0·4	71	39·5	+1·8	29	74	+5	4·8	7·45	+3·88	8	+1·7	2·90
	February	·606	+·009	Calm	1·8	45·2	42·0	56·4	—5·9	67	39·2	—1·6	27	77	+8	5·3	6·17	+2·14	13	+7·1	1·11
	March	·614	+·067	S 45° W	1·8	54·7	49·0	73·3	+5·0	89	48·3	+1·6	37	66	—2	1·9	3·44	—2·46	5	—3·5	1·32
	April	·502	+·040	S 27° W	2·8	63·9	56·7	84·9	+7·3	94	58·7	+4·4	49	63	—2	2·1	2·02	—3·03	4	—4·6	0·68
	May	·381	+·020	Calm	2·0	70·0	61·6	86·1 (d)	—3·6	96	63·6	+0·3	53	60	+6	2·0	3·49	+1·24	10	+6·8	1·04
	June	·290	+·092	Calm	1·5	77·5	66·3	97·6	—0·1	104	69·3	—3·0	58	54	+3	0·7	1·77	—1·59	3	—3·1	0·72
	July	·223	+·062	Calm	1·2	75·9	70·1	91·5	—3·3	103	69·8	—3·8	62	73	+6	2·6	10·01	+0·02	10	—1·9	5·68
	August	·150	—·060	S	0·9	77·1	73·7	93·1	+2·3	101	73·0	+0·8	65	84	+6	2·9	8·46	—1·55	13	+0·2	1·70
	September	·309	—·048	Calm	0·5	70·4	66·3	90·9 (c)	+0·9	97	67·1	+0·9	61	80	+10	0·9	1·98	—1·82	5	—0·9	0·63
	October	·517	—·003	Calm.	0·5	62·2	58·9	82·4	—2·0	95	53·8	+3·3	44	81	+20	1·8	5·51	+3·97	7	+4·6	2·12
	November	·591	—·029	Calm	0·4	49·4	46·4	73·0	—2·0	79	46·1	+1·3	41	79	+18	3·2	0·28	—0·37	1	—0·5	0·14
	December	·618	—·034	(a) S	(b) 0·3	41·7	(b) 39·5	66·7	+3·7	80	38·3	+0·3	32	(b) 79	+8	1·4	0·13	—2·18	0	—4·4	0·05
	Year	27·456	+·009	--	1·3	61·3	56·2	79·7	+0·1	104	56·0	+0·5	27	73	+8	2·5	50·66	—1·72	79	+1·0	5·68
Sibi (Baluchistan) (441).	January	29·598	--	N 13° E	1·9	49·9	41·2	72·4	--	77	44·0	--	36	41	--	4·9	0·08	--	0	--	0·05
	February	·576	--	N 54° W	3·0	51·5	43·9	66·6	--	74	46·8	--	37	50	--	5·7	1·34	--	3	--	0·66
	March	·465	--	N 3° W	1·1	69·4	54·3	86·7	--	101	59·2	--	43	31	--	2·0	0·09	--	0	--	0·05
	April	·300	--	S	1·3	84·2	65·9	101·2	--	109	73·7	--	65	33	--	3·7	0·40	--	1	--	0·22
	May	·160	--	N 60° W	(a) 4·8	93·1	70·0	107·8	--	115	80·8	--	67	27	--	2·3	0·19	--	1	--	0·14
	June	·075	--	S 31° E	4·3	94·3	76·4	111·3	--	118	85·1	--	77	41	--	1·1	0·05	--	0	--	0·05
	July	28·969	--	S 19° E	5·2	92·9	77·9	109·1	--	117	87·5	--	75	49	--	1·6	0·18	--	1	--	0·13
	August	·975	--	S 28° E	4·9	93·3	81·7	108·5	--	113	88·7	--	75	60	--	2·3	0·08	--	0	--	0·08
	September	29·180	--	S 58° E	3·0	88·3	72·8	105·3	--	108	79·6	--	71	45	--	1·4	0	--	0	--	0
	October	·402	--	N 8° E	2·1	77·8	63·4	97·2	--	105	68·5	--	49	40	--	1·0	0	--	0	--	0
	November	·546	--	N 63° E	1·1	64·1	50·9	86·8	--	92	53·7	--	49	34	--	1·4	0	--	0	--	0
	December	·605	--	N 26° E	0·7	52·0	42·6	76·6	--	85	45·1	--	35	39	--	1·5	0	--	0	--	0
	Year	29·321	--	--	2·7	75·9	61·7	94·1	--	118	67·7	--	35	41	--	2·4	2·41	--	6	--	0·65

(a) Mean of 30 days. (b) Mean of 29 days. (c) Mean of 28 days. (d) Mean of 23 days.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer cistern above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.								Humidity.		Cloud.	Rainfall.				
		At 8 hrs. reduced to 32° F and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Mean 8 hrs.		Maximum.			Minimum.			Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
						Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Sukkur (Sind) (198).	January	29·808	..	N 43° E	2·5	51·6	46·1	74·0	..	80	45·8	..	40	62	..	0	0	..	0	..	0
	February	..	..	N 46° E	3·1	53·7	47·3	71·7	..	80	47·7	..	36	58	..	0	0	..	0	..	0
	March	..	..	S 68° E	2·7	(g) 69·9	(g) 57·7	(g) 89·5	..	102	(g) 57·9	..	46	(g) 44	..	0	0	..	0	..	0
	April	29·558	..	S 61° E	3·9	81·8	69·0	100·9	..	109	72·6	..	66	50	..	1·3	0·02	..	0	..	0·02
	May	·419	..	S 63° E	4·1	88·2	70·2	107·0	..	113	78·7	..	71	39	..	1·4	0	..	0	..	0
	June	·326	..	S 3° E	5·7	89·4	76·2	108·9	..	115	81·5	..	75	53	..	0·2	0·04	..	0	..	0·04
	July	·235	..	S 21° E	6·6	88·7	78·3	106·1	..	114	83·6	..	79	61	..	1·9	0·03	..	0	..	0·03
	August	·244	..	S 13° E	5·8	87·9	79·0	103·8	..	109	83·9	..	80	66	..	3·5	0·17	..	1	..	0·16
	September	·447	..	S 27° E	3·7	83·4	74·2	101·7	..	105	77·5	..	70	63	..	0·6	0	..	0	..	0
	October	·664	..	N 84° E	1·9	78·2	67·4	96·0	..	104	68·9	..	55	54	..	0	0	..	0	..	0
	November	·832	..	N 67° E	0·9	67·5	58·5	87·5	..	93	55·5	..	49	55	..	0·7	0	..	0	..	0
	December	·890	..	N 48° E	1·1	56·1	49·0	78·8	..	86	48·2	..	39	58	..	1·0	0	..	0	..	0
	Year	(f) 29·542	..	..	3·5	74·7	64·4	93·8	..	115	66·8	..	36	55	..	0·9	0·26	..	1	..	0·16
Badin (Sind) (36).	January	30·018	..	N 6° E	2·2	53·9	..	78·9	..	81	47·7	..	41	..	..	2·1	0	..	0	..	0
	February	·003	..	N 35° E	2·2	57·6	..	76·8	..	87	51·4	..	38	..	..	4·1	0·40	..	1	..	0·40
	March	29·910	..	N 76° W	3·5	71·7	..	93·5	..	106	62·5	..	50	..	..	1·6	0	..	0	..	0
	April	·757	..	S 85° W	6·1	84·0	..	104·6	..	110	73·8	..	69	..	..	1·5	0	..	0	..	0
	May	·623	..	S 56° W	8·7	87·3	..	105·8	..	112	80·3	..	75	..	..	1·6	0·10	..	1	..	0·10
	June	·561	..	S 50° W	9·0	88·8	..	104·0	..	110	82·9	..	79	..	..	2·4	0	..	0	..	0
	July	·450	..	S 60° W	9·7	87·5	..	99·6	..	109	83·4	..	79	..	..	5·5	0·80	..	3	..	0·56
	August	·457	..	S 72° W	6·9	85·0	..	96·9	..	102	82·4	..	77	..	..	6·5	2·27	..	4	..	1·22
	September	·662	..	S 78° W	8·3	81·8	..	96·6	..	105	(c) 78·3	..	69	..	..	4·1	0	..	0	..	0
	October	·803	..	N 8° W	4·2	80·2	..	93·5	..	105	70·0	..	59	..	..	1·6	0	..	0	..	0
	November	·968	..	N 34° E	2·5	71·0	..	(b) 93·5	..	98	61·1	..	56	..	..	1·6	0	..	0	..	0
	December	30·016	..	N 29° E	3·0	59·1	..	82·6	..	90	53·1	..	48	..	..	0·8	0	..	0	..	0
	Year	29·769	..	..	5·5	75·7	..	93·9	..	112	68·9	..	38	..	..	2·8	3·57	..	9	..	1·22

(a) Mean of 9 months. (b) Mean of 17 days. (c) Mean of 23 days. (f) Mean of 10 months (g) Mean of 30 days.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.								Humidity.		Cloud.	Rainfall.				
		At 8 hrs. reduced to 32° F and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Mean 8 hrs.		Maximum.			Minimum.			Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
						Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Ghhor (Sind) (19).	January	30·080	..	N 15° E	4·0	53·5	45·4	..	..	..	35·2	..	23	49	..	0·7	0	..	0	..	0
	February (c)	·005	..	N 11° E	(d) 5·4	59·0	51·6	..	..	..	50·1	..	30	58	..	4·9	0	..	0	..	0
	March	29·922	..	S 28° W	4·2	70·0	61·5	..	..	..	56·7	..	41	54	..	1·5	0	..	0	..	0
	April	·750	..	S 38° W	6·5	85·9	72·8	..	..	..	69·2	..	63	52	..	1·3	0	..	0	..	0
	May	·617	..	S 35° W	10·0	88·3	78·6	..	..	..	76·5	..	64	63	..	1·8	0·54	..	1	..	0·54
	June	·556	..	S 34° W	10·0	89·9	79·9	..	..	..	78·1	..	61	63	..	2·3	0	..	0	..	0
	July	·441	..	S 34° W	10·8	88·7	80·6	..	..	..	76·7	..	59	69	..	4·9	0·89	..	3	..	0 61
	August	·447	..	S 35° W	9·0	85·7	80·0	..	..	..	80·7	..	72	77	..	5·1	6·36	..	7	..	2·43
	September	·646	..	S 29° W	7·0	81·8	76·1	..	..	..	75·9	..	71	75	..	3·5	1·09	..	2	..	0·98
	October	·837	..	N 31° E	3·7	81·6	73·1	..	..	..	69·5	..	55	66	..	1·3	0·91	..	1	..	0·86
	November	·939	..	N 59° E	2·4	70·4	60·3	..	..	..	55·8	..	50	51	..	1·9	0	..	0	..	0
	December	30·038	..	N 30° E	3·7	59·4	51·8	..	..	..	49·0	..	41	56	..	0·6	0	..	0	..	0
	Year	29·769	..	..	6·4	76·2	67·6	..	..	..	64·5	..	23	61	..	2·5	9·79	..	14	..	2·43
Las-Bela (Sind) (210).	January	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	February	8 hrs. observations started from 17th March 1931.																			
	March (b)	29·643	..	N 31° W	1·9	73·4	67·2	82·5	..	93	58·7	..	54	72	..	0·3	0	..	0	..	0
	April	·521	..	N 21° W	2·3	81·7	76·3	(e) 82·2	..	106	67·4	..	63	78	..	1·4	0·26	..	1	..	0·18
	May	·390	..	S 27° W	2·8	85·3	80·0	106·4	..	117	72·3	..	67	79	..	1·5	0·54	..	1	..	0·54
	June	·315	..	S 17° E	3·1	87·7	83·9	106·3	..	115	81·0	..	73	84	..	3·3	0·16	..	1	..	0·16
	July	·215	..	S 7° E	3·1	86·9	81·9	103·6	..	113	81·4	..	78	80	..	7·5	0·01	..	0	..	0·01
	August	·216	..	S 20° E	2·7	85·0	79·9	104·7	..	106	80·1	..	76	79	..	6·9	0·62	..	2	..	0·40
	September	·414	..	S 31° E	2·2	81·1	76·1	99·9	..	107	73·5	..	65	79	..	3·6	0	..	0	..	0
	October	·569	..	N 32° W	1·7	80·1	68·0	99·5	..	109	63·2	..	46	51	..	8·4	0	..	0	..	0
	November	·714	..	N 12° W	1·0	71·8	59·7	92·7	..	96	53·5	..	43	46	..	0·9	0	..	0	..	0
	December	·768	..	N 32° W	1·1	62·0	54·3	83·4	..	91	48·4	..	40	57	..	1·8	0	..	0	..	0
	Year (a)	29·477	..	..	2·2	79·5	72·7	96·1	..	117	67·9	..	40	71	..	3·6	1·59	..	5	..	0·54

(a) Mean of 10 months. (b) Mean of 15 days. (c) Mean of 19 days. (d) Mean of 18 days. (e) Mean of 16 days.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.								Humidity.		Cloud.	Rainfall.				
		At 8 hrs. reduced to 32° F and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Mean 8 hrs.		Maximum.			Minimum.			Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
						Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Beawar (Rajputana) (631).	January (*a*)	29·362	..	N 56° W	(*b*) 4·7	57·6	49·7	..	..	..	52·6	..	47	53	..	2·9	0	..	0	..	0
	February	·338	..	N 40° W	5·7	59·2	50·1	..	..	..	52·3	..	41	53	..	4·2	0·07	..	0	..	0·03
	March	·270	..	N 30° W	5·5	73·7	61·8	..	..	..	65·0	..	50	48	..	2·0	0	..	0	..	0
	April	·124	..	N 62° W	7·3	86·6	71·2	..	..	..	78·1	..	67	45	..	1·4	0	..	0	..	0
	May	·012	..	S 41° W	7·9	87·3	75·8	..	..	..	79·4	..	62	58	..	1·7	0·70	..	1	..	0·70
	June	28·939	..	S 66° W	8·3	89·4	77·6	..	..	..	80·8	..	66	58	..	1·8	0·48	..	1	..	0·39
	July	·851	..	S 68° W	7·6	86·0	77·3	..	..	..	79·9	..	74	66	..	6·3	1·15	..	4	..	0·38
	August	·833	..	S 69° W	5·9	82·5	77·1	..	..	..	78·4	..	72	78	..	7·3	22·07	..	12	..	5·30
	September	29·035	..	S 59° W	5·5	82·1	73·3	..	..	..	76·5	..	71	65	..	4·8	0·64	..	1	..	0·48
	October	·188	..	N 46° E	4·0	82·6	69·9	..	..	..	70·3	..	5	61	..	2·3	0·33	..	1	..	0·27
	November (*a*)	·329	..	N 24° W	(*b*) 3·0	70·5	58·8	..	..	..	60·0	..	52	45	..	2·3	0·	..	0	..	0
	December	·364	..	N 39° W	3·9	61·4	52·6	..	..	..	54·6	..	48	52	..	1·3	0·	..	0	..	0
	Year	29·138	..	..	5·8	76·6	66·3	..	..	..	69·0	..	41	57	..	3·2	25·44	..	20	..	5·30
Jamnagar (Gujrat) (6.).	January	29·957	—·026	S	..	60·5	53·4	80·7	+1·3	87	50·4	—3·3	45	60	—3	2·5	0	—0·05	0	—0·2	0
	February	·948	+·004	N 1° W	..	63·9	57·4	79·4	—3·1	85	55·7	0	47	65	+1	2·7	0·05	—0·05	0	—0·2	0·05
	March	·910	+·043	N 2° W	..	73·2	65·9	89·1	—0·9	97	60·7	—2·7	49	65	—3	2·6	0	—0·15	0	—0·2	0
	April	·773	—·004	N 23° W	..	81·3	..	98·8	+3·8	106	71·6	+0·9	67	..	..	2·3	0	—0·04	0	0	0
	May	·661	—·018	S 38° W	..	86·3	78·6	98·8	+1·1	103	78·1	+1·4	73	70	+3	1·9	0·05	—0·04	0	—0·2	0·05
	June	·582	+·050	N 58° W	..	83·3	83·2	97·9	+1·9	105	81·2	+1·2	78	80	+10	4·1	0·08	—2·73	0	—3·0	0·05
	July	·484	—·029	S 77° W	..	86·1	82·5	93·3	+2·1	98	80·1	+1·5	77	86	+9	6·3	3·38	—5·11	4	—3·7	1·46
	August	·503	—·072	S 61° W	..	82·7	78·6	89·1	+1·1	95	78·2	+1·5	75	83	+2	6·9	3·32	—2·33	8	+1·4	1·45
	September	·709	—·001	N 83° W	..	82·6	..	89·6	+0·2	98	75·8	+1·6	71	..	..	5·3	0·26	—1·91	2	—0·5	0·14
	October	·819	—·007	N 60° W	..	81·5	77·9	92·4	—1·3	99	74·1	+3·5	68	85	+17	3·5	0·52	+0·06	1	+0·5	0·42
	November	·937	+·018	N 36° E	..	75·8	67·3	89·4	—0·1	93	..	..	..	62	+3	1·5	0	—0·01	0	0	..
	December	·939	—·037	N 41° E	..	66·1	56·9	82·6	+1·0	89	..	..	..	54	—2	0·4	0	—0·04	0	—0·1	0
	Year	29·768	—·006	..	..	77·4	(*c*) 70·2	90·1	+0·6	106	(*c*) 70·6	+2·5	45	(*c*) 71	+3	3·3	7·66	—12·40	15	—6·2	1·46

(*a*) Mean of 29 days. (*b*) Mean of 28 days. (*c*) Mean of 10 months.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.									Humidity.		Cloud.	Rainfall.				
						Mean 8 hrs.		Maximum.			Minimum.											
		At 8 hrs. reduced to 32° F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest month or year.	Mean.	Departure from normal.	Lowest month or year.	Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Harvest fall in month or year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Dohad (Gujarat) (1,009).	January	..	..	S 88° E	2·3	57·8	52·9	86·8	..	99	53·8	..	42	70	..	1·6	0	..	0	..	0
	February	29·020	..	N 87° E	3·4	60·1	53·7	84·3	..	90	54·7	..	44	63	..	4·1	0	..	0	..	0
	March	28·983	..	S 58° E	3·3	71·0	61·3	94·5	..	105	62·8	..	52	55	..	2·4	0	..	0	..	0
	April	·819	..	N 74° W	4·3	86·0	69·4	104·1	..	108	75·9	..	68	40	..	1·4	0	..	0	..	0
	May	·749	..	S 71° W	7·9	85·5	77·2	103·5	..	110	79·2	..	77	66	..	1·6	0	..	0	..	0
	June	·650	..	S 70° W	8·6	87·2	80·0	103·1	..	111	(b) 81·6	..	73	71	..	4·0	0·39	..	2	..	0·17
	July	·586	..	S 58° W	7·8	79·8	77·5	90·4	..	101	76·4	..	72	89	..	8·2	7·96	..	13	..	1·82
	August	·551	..	S 61° W	6·9	77·3	76·1	84·3	..	90	75·0	..	73	95	..	9·6	14·56	..	21	..	5·18
	September	·735	..	S 72° W	4·8	77·6	74·9	86·9	..	94	78·6	..	70	88	..	7·8	4·77	..	11	..	0·81
	October	·824	..	N 67° E	3·0	73·4	70·1	87·9	..	92	67·4	..	56	88	..	4·3	7·09	..	10	..	3·24
	November	·988	..	N 75° E	2·6	65·3	60·4	87·3	..	91	57·2	..	52	74	..	1·8	0·11	..	1	..	0·10
	December	29·002	..	N 86° E	2·0	58·7	55·8	83·3	..	88	88·5	..	46	82	..	2·8	0·29	..	1	..	0·29
	Year	(c) 28·810	..	..	4·7	73·3	67·4	91·4	..	111	70·1	..	42	73	..	4·1	35·17	..	59	..	5·18
Guna (Central India) (1,671).	January	28·437	..	S 80° E	2·6	58·0	51·5	81·6	..	86	49·3	..	35	61	..	1·7	0	..	0	..	0
	February	·436	..	N 84° E	3·1	59·2	52·3	77·9	..	88	50·9	..	31	60	..	3·9	0·17	..	1	..	0·12
	March	·401	..	N 88° E	3·2	71·7	54·2	91·1	..	105	57·1	..	44	26	..	1·6	0	..	0	..	0
	April	·230	..	S 62° W	3·9	87·3	60·9	104·1	..	110	70·3	..	63	16	..	0·4	0	..	0	..	0
	May	·127	..	N 88° W	5·6	91·2	68·9	107·1	..	112	78·2	..	69	29	..	0·3	0·15	..	1	..	0·15
	June	·035	..	N 84° W	5·4	91·4	70·8	106·5	..	114	81·5	..	73	34	..	1·3	0·99	..	2	..	0·64
	July	27·935	..	S 77° W	7·7	80·2	76·0	91·3	..	107	77·8	..	72	83	..	6·4	14·63	..	14	..	3·69
	August	·959	..	S 86° W	5·4	77·1	75·6	84·9	..	90	74·6	..	72	93	..	9·7	26·36	..	22	..	3·85
	September	28·151	..	N 86° W	3·5	77·0	74·0	86·0	..	92	71·8	..	63	86	..	5·6	6·73	..	10	..	2·35
	October	·288	..	S 63° E	0·6	72·2	67·9	84·9	..	91	64·5	..	52	79	..	3·4	6·75	..	8	..	1·80
	November	·430	..	N 11° E	0·6	65·2	58·0	82·4	..	85	50·3	..	43	64	..	0·1	0	..	0	..	0
	December	·451	..	S 66° E	1·8	58·0	51·8	77·3	..	81	48·0	..	43	64	..	1·9	0·02	..	0	..	0·02
	Year	28·244	..	..	3·6	74·0	63·5	89·6	..	114	64·5	..	31	53	..	3·0	55·85	..	58	..	3·85

(b) Mean of 29 days.

(c) Mean of 11 months.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.									Humidity.		Cloud.	Rainfall.				
		At 8 hrs. reduced to 32° F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Mean 8 hrs.		Maximum.			Minimum.				Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
						Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.									
1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Alibág (Konkan) (23).	January	29·939	..	N 53° E	3·9	71·8	64·5	84·2	..	91	65·3	..	59		65	..	1·5	0	..	0	..	0
	February	·909	..	N 50° E	4·8	72·2	64·0	83·2	..	88	65·2	..	60		62	..	0·2	0	..	0	..	0
	March	·902	..	N 56° E	5·3	76·4	68·5	84·3	..	94	68·5	..	61		65	..	2·6	0	..	0	..	0
	April	·816	..	S 17° E	5·9	84·0	75·6	89·7	..	96	76·3	..	72		66	..	1·7	0	..	0	..	0
	May	·784	..	S 45° W	7·2	85·6	77·7	89·8	..	92	79·7	..	75		68	..	4·3	0	..	0	..	0
	June	·685	..	S 42° W	9·6	84·5	79·0	89·0	..	93	80·6	..	78		77	..	7·2	11·18	..	9	..	3·00
	July	·643	..	S 50° W	13·7	81·3	77·6	84·8	..	88	76·6	..	74		84	..	9·5	40·96	..	29	..	4·32
	August	·635	..	S 63° W	16·5	80·7	77·5	83·9	..	86	77·7	..	75		86	..	9·5	18·95	..	27	..	5·52
	September	·772	..	N 59° W	8·5	80·4	76·7	84·4	..	87	76·1	..	72		84	..	8·6	5·97	..	12	..	1·22
	October	·814	..	S 27° E	6·4	78·9	74·6	85·5	..	93	72·8	..	66		81	..	6·0	12·62	..	16	..	3·02
	November	·918	..	N 87° E	4·3	78·0	70·5	89·1	..	92	71·0	..	66		67	..	2·5	3·77	..	2	..	2·93
	December	·936	..	N 71° E	4·5	73·2	65·4	85·9	..	91	66·1	..	61		64	..	2·9	0·71	..	2	..	0·44
	Year	29·812	..	..	7·5	78·9	72·6	80·1	..	96	73·1	..	59		72	..	4·7	94·16	..	97	..	5·52
Miraj (Bombay-Deccan) (1,824).	January	28·162	..	S 34° W	4·3	68·2	60·6	..	..	..	58·8	..	53		57	..	0·3	0	..	0	..	0
	February	·129	..	N 69° W	5·1	71·3	61·8	92·4	..	98	61·4	..	57		51	..	2·2	0·14	..	1	..	0·11
	March	·109	..	N 62° W	6·0	75·7	64·3	96·3	..	100	65·5	..	57		71	..	2·0	1·56	..	6	..	0·47
	April	·047	..	N 73° W	8·0	80·2	73·1	101·6	..	106	71·9	..	65		71	..	1·5	1·19	..	2	..	0·35
	May	·000	..	N 88° W	7·7	80·3	73·2	100·5	..	107	72·3	..	68		76	..	6·8	4·53	..	6	..	1·32
	June	27·923	..	S 76° W	8·2	77·8	72·5	91·1	..	99	72·2	..	69		86	..	9·0	5·07	..	12	..	0·97
	July	·910	..	S 86° W	9·8	74·5	71·7	81·4	..	85	70·0	..	68		88	..	8·5	2·69	..	9	..	0·62
	August	·892	..	N 70° W	7·2	73·7	71·4	80·3	..	85	70·7	..	69		88	..	8·7	4·05	..	3	..	1·49
	September	·934	..	S 78° E	4·8	73·4	70·7	82·1	..	90	69·2	..	65		64	..	1·0	0	..	0	..	0
	October	28·046	..	S 71° W	5·8	74·0	68·6	83·9	..	91	66·6	..	56		75	..	5·5	2·32	..	4	..	1·14
	November	·133	..	S 89° E	5·1	72·6	65·4	84·0	..	89	63·7	..	53		67	..	4·4	3·81	..	4	..	1·27
	December	·150	..	N 84° E	5·0	67·2	59·4	81·6	..	85	58·6	..	49		61	..	3·5	1·50	..	3	..	0·70
	Year	28·040	..	—	6·4	74·1	67·7	(z) 88·7	..	107	66·8	..	49		71	..	4·5	26·91	..	50	..	1·45

(z) Mean of 11 months.

MONTHLY AND ANNUAL TABLE D.3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure. At 8 hrs. reduced to 32° F. and standard gravity.	Pressure. Departure from normal.	Wind. Mean direction at 8 hrs.	Wind. Mean velocity in miles per hour.	Temperature. Mean 8 hrs. Dry bulb.	Temperature. Mean 8 hrs. Wet bulb.	Temperature. Maximum. Mean.	Temperature. Maximum. Departure from normal.	Temperature. Maximum. Highest in month or year.	Temperature. Minimum. Mean.	Temperature. Minimum. Departure from normal.	Temperature. Minimum. Lowest in month or year.	Humidity. Mean 8 hrs.	Humidity. Departure from normal.	Cloud. Mean amount 8 hrs.	Rainfall. Total of the month or year.	Rainfall. Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Gadag (Bombay Deccan) (2,131).	January																				
	February																				
	March							Data not available.													
	April																				
	May(*m*)	27·678	..	W	9·5	77·1	71·7	99·4	..	106	71·6	..	67	75	..	2·8	1·45	..	3	..	1·20
	June	·622	..	S 89 W	8·7	76·3	74·6	90·0	..	96	71·8	..	68	91	..	6·5	5·27	..	9	..	1·53
	July	·610	..	N 89 W	9·8	74·1	70·6	83·2	..	88	70·4	..	68	84	..	8·6	1·08	..	3	..	0·42
	August	·591	..	N 86 W	9·4	73·7	70·7	82·9	..	89	70·5	..	69	86	..	5·9	1·42	..	3	..	0·66
	September	·667	..	N 85 W	5·4	72·3	69·4	83·3	..	91	68·7	..	67	85	..	6·6	10·29	..	10	..	3·74
	October	·726	..	N 86 W	4·4	73·5	68·4	86·0	..	94	68·2	..	61	77	..	4·7	0·54	..	3	..	0·16
	November	·800	..	S 87 E	3·0	72·7	67·6	84·8	..	89	65·7	..	59	77	..	3·2	1·95	..	5	..	0·52
	December	·816	..	E	3·5	69·0	62·5	82·7	..	87	62·5	..	56	65	..	3·2	0·23	..	1	..	0·23
	Year (*w*)	27·689	..	..	6·7	73·7	69·4	86·6	..	106	68·7	..	56	80	..	5·2	22·24	..	37	..	3·74
Mahableshwar (Bombay Deccan). (4,534)	January																				
	February																				
	March							Started in June.													
	April																				
	May																				
	June	(*b*) 25·495	..	..	..	67·5	65·6	75·3	..	86	64·0	..	62	90	..	8·9	11·08	..	15	..	2·30
	July	·391	..	W	..	64·7	64·6	65·9	..	89	62·4	..	58	100	..	10·0	99·87	..	31	..	7·35
	August	·342	..	S 80 W	..	64·2	64·2	65·5	..	68	62·8	..	61	100	..	10·0	106·83	..	31	..	7·17
	September	·442	..	W	..	63·4	62·9	67·4	..	72	61·0	..	58	97	..	8·8	36·69	..	22	..	4·34
	October	..	..	(*a*) S 75 E	..	63·9	61·8	69·8	..	78	60·3	..	52	89	..	6·3	24·30	..	17	..	3·25
	November	25·580	..	N 82 E	..	63·8	58·5	72·6	..	76	(*b*) 59·4	..	55	72	..	3·6	6·76	..	4	..	4·18
	December	·572	..	E	..	60·8	53·6	70·8	..	77	56·4	..	52	63	..	2·8	0·48	..	2	..	0·16
	Year(*v*)	(*u*) 25·470	..	..	..	64·0	61·6	69·6	..	89	60·9	..	52	87	..	7·2	285·81	..	122	..	7·35

(*a*) Mean of 30 days. (*b*) Mean of 29 days. (*m*) Mean of 18 days. (*v*) Mean of 7 months.
(*u*) Mean of 6 months. (*w*) Mean of 8 months.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barcistern above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.								Humidity.		Cloud.	Rainfall.				
						Mean 8 hrs.		Maximum.			Minimum.										
		At 8 hrs. reduced to 32°F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.	Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Hassan* (Mysore). (3,149)	January	26·860	+·025	S 85 E	3·0	67·4	61·1	84·4	+2·1	87	58·9	+3·4	54	70	—4	2·9	0	—0·17	0	0	0
	February	·848	+·026	S 78 E	2·0	70·4	63·4	90·3	+3·6	94	61·6	+3·7	57	68	—1	1·3	0	—0·15	0	0	0
	March	·845	+·050	N 40 E	2·9	75·1	65·8	93·2	+2·0	96	66·1	+4·0	62	60	—5	0·9	0	—0·32	0	—1·0	0
	April	·789	+·037	N 75 W	3·9	76·0	70·2	93·3	+1·3	98	69·8	+3·3	67	75	+5	2·6	4·24	+2·08	5	+1·0	2·18
	May	·749	+·025	N 87 W	5·3	75·3	69·2	90·0	+1·3	96	68·2	+1·3	63	73	—2	5·3	5·46	+0·89	9	+4·0	1·30
	June	·694	+·024	S 76 W	6·3	72·2	68·7	81·6	+1·0	86	67·6	+1·6	65	84	+1	8·3	3·91	+0·21	5	—7·0	2·08
	July	·699	+·030	S 72 W	6·7	70·1	67·5	78·1	+0·8	83	66·3	+1·1	65	87	+1	9·4	3·89	—2·17	12	—1·0	0·77
	August	·680	—·019	S 73 W	7·7	70·1	67·9	76·8	—1·7	81	66·8	+2·1	65	89	+4	9·5	7·41	+3·82	16	+7·0	1·15
	September	·731	—·002	N 86 W	5·1	70·0	66·9	80·4	—0·1	86	65·4	+1·1	63	85	+2	7·9	12·58	+8·39	10	+2·0	3·56
	October	·780	+·014	N 74 W	4·4	71·6	66·7	83·2	+1·5	88	65·1	+1·0	60	77	—5	6·6	0·21	—5·80	1	—8·0	0·13
	November	·808	—·003	N 86 W	2·7	70·6	66·2	82·1	+1·8	87	64·6	+4·8	57	80	+4	6·2	3·63	+0·37	8	+3·0	1·17
	December	·822	—·014	N 83 E	3·3	67·1	63·1	79·1	—0·6	83	61·9	+6·0	51	80	+4	7·5	2·17	+1·50	3	+2·0	1·06
	Year	26·775	+·016	..	4·5	71·3	66·4	84·4	+1·1	98	65·2	+2·8	51	77	0	5·7	43·50	+8·65	69	+2·0	3·56
Balehonnur* (Mysore). (2,988)	January	27·121	..	S 43 E	..	68·5	62·4	82·3	..	89	59·6	..	54	70	..	3·2	0	..	0	..	0
	February	·102	..	S 61 E	..	67·9	63·8	87·4	..	90	61·4	..	57	80	..	3·9	0	..	0	..	0
	March	·104	..	S 49 E	..	69·7	64·3	88·7	..	93	64·1	..	59	75	..	3·3	1·50	..	1	..	1·50
	April	·051	..	S 66 E	..	73·3	70·5	87·7	..	92	67·8	..	64	86	..	5·7	7·36	..	9	..	1·30
	May	·021	..	N 37 W	..	73·2	69·6	85·4	..	89	67·3	..	60	83	..	6·6	3·07	..	4	..	0·96
	June	26·966	..	N 33 W	..	70·9	69·0	77·6	..	82	67·1	..	64	91	..	9·5	10·67	..	17	..	1·66
	July	·972	..	N 10 W	..	68·8	67·5	75·2	..	79	65·8	..	63	93	..	9·5	24·84	..	29	..	4·76
	August	·952	..	N 51 W	..	68·5	67·5	72·3	..	77	66·4	..	65	95	..	9·9	49·93	..	31	..	4·72
	September	27·007	..	N 48 W	..	67·7	66·7	75·6	..	81	65·1	..	63	95	..	9·2	8·02	..	13	..	1·66
	October	·051	..	S 42 E	..	69·2	67·1	79·1	..	84	64·0	..	58	90	..	7·0	1·29	..	6	..	0·24
	November	·078	..	S 48 E	..	68·9	66·6	79·8	..	84	62·9	..	57	84	..	5·6	3·80	..	7	..	1·13
	December	·074	..	S 33 E	..	65·7	62·0	77·2	..	83	60·5	..	..	81	..	6·6	0·68	..	2	..	0·42
	Year	27·042	..	..	..	69·4	66·3	80·7	..	93	64·3	..	54	85	..	6·7	111·16	..	124	..	4·76

* Data supplied by the Meteorological Reporter to the Government of Mysore.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.									Humidity.		Cloud.	Rainfall.				
		At 8 hrs. reduced to 32° F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Mean 8 hrs.		Maximum.			Minimum.				Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
						Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.									
1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Minicoy (Arabian Sea) (7).	January	29·904	—·018	N 50 E	2·3	82·4	76·1	85·9	+0·2	87	76·2	0	73		73	—4	5·7	2·89	+1·01	4	+1·3	1·97
	February	·912	—·006	N 25 E	2·6	83·9	76·3	87·9	+1·6	90	77·7	+1·3	73		69	—7	3·9	0	—0·65	0	—1·1	0
	March	·922	+·031	N 3 E	2·3	85·1	76·9	89·3	+1·6	91	77·8	—0·5	73		68	—6	3·9	0	—1·04	0	—1·6	0
	April	·860	+·014	N 45 W	3·2	85·6	78·2	91·1	+1·7	94	79·5	0	74		70	—4	4·7	2·05	—0·57	4	+0·4	0·85
	May	·823	—·005	N 60 W	4·3	86·4	78·9	91·5	+2·6	94	80·6	—0·1	74		70	—7	5·6	7·50	+1·11	7	—1·6	2·66
	June	·814	—·002	N 87 W	9·3	83·3	76·5	87·4	+1·2	90	78·7	+0·1	75		79	—3	6·9	9·78	—2·18	12	—5·3	3·60
	July	·835	+·006	S 71 W	10·0	81·5	77·2	88·1	+0·6	88	77·2	—0·4	73		81	—1	8·0	5·26	—3·54	11	—2·9	1·43
	August	·831	—·023	S 82 W	10·4	80·1	77·1	84·2	—1·4	88	76·5	—0·1	71		87	+6	6·8	14·33	+7·17	22	+11·0	2·98
	September	·859	—·014	N 59 W	4·5	81·5	76·4	85·8	+0·1	88	76·4	—1·7	73		78	—2	5·4	9·53	+3·12	12	+1·9	2·55
	October	·885	+·012	N 64 W	4·3	83·7	76·9	87·6	+1·5	92	77·4	—0·1	74		71	—10	4·6	2·32	—6·00	7	—4·6	0·87
	November	·874	—·012	N 22 W	5·1	82·9	77·2	86·1	—0·2	88	76·6	—0·3	72		77	—2	5·4	4·96	—0·33	9	+1·9	0·92
	December	·875	—·031	N 25 E	3·2	82·2	76·3	86·0	—0·1	88	77·5	+1·6	73		75	—2	4·9	4·20	+0·69	6	+1·8	1·92
	Year	29·866	—·004	..	5·1	83·2	77·2	87·4	+0·8	94	77·7	0	71		75	—3	5·5	62·77	—1·21	94	+1·2	3·60
Amini Divi. (Arabian Sea) (13).	January	29·897	—·032	N 29 E	2·4	83·5	76·0	89·0	+2·9	91	76·0	+2·0	71		69	—3	3·5	0·02	—0·68	0	—1·1	0·02
	February	·906	—·017	N 6 E	4·4	83·9	76·3	90·5	+3·4	93	77·7	+1·7	73		69	—3	2·4	0	—0·03	0	—0·3	0
	March	·911	+·021	N 4 E	5·5	84·6	76·8	90·1	+0·6	94	79·0	+1·4	76		68	—4	1·8	0	—0·05	0	—0·1	0
	April	·837	+·003	N 32 W	4·9 (b)	86·6	79·3	91·0	—0·7	95	81·9	+2·1	78		70	—1	4·1	0·20	—1·30	1	—0·7	0·20
	May	·807	—·061	N 41 W	7·0	86·3	79·3	90·8	—0·7	95	81·4	+0·8	73		72	—2	4·9	7·82	+4·15	8	+3·3	1·74
	June	·761	—·006	N 89 W	10·9	83·6	79·9	86·6	—0·7	89	78·9	+0·8	76		83	+1	8·3	10·90	—3·41	14	—2·5	3·08
	July	·781	—·007	S 82 W	12·8	82·3	78·7	85·3	—0·4	87	78·3	+0·9	73		85	+2	8·2	11·43	—0·57	13	—2·7	2·33
	August	·773	—·050	S 83 W	14·5	81·9	79·0	84·3	—1·4	86	77·7	+0·3	73		87	+5	8·1	13·06	+5·41	17	+5·6	3·02
	September	·827	—·021	N 58 W	10·4	81·7	77·2	85·0	—0·8	89	78·4	+1·2	75		81	0	6·4	3·63	—2·72	8	—2·5	0·95
	October	·855	—·002	N 63 W	6·2	82·0	77·0	86·4	0	92	77·4	+0·6	74		79	—1	5·2	5·74	—0·07	10	+1·3	1·17
	November	·857	—·018	N 38 E	2·2	82·8	77·7	87·7	+1·2	90	76·2	+0·7	73		79	+3	5·2	4·36	+1·78	11	+6·8	1·10
	December	·859	—·049	N 10 E	3·4	83·0	76·2	87·9	+1·6	91	76·8	+2·5	71		71	—1	5·5	3·36	+2·09	5	+3·0	1·25
	Year	29·839	—·015	..	7·1	83·5	77·8	87·9	+0·4	95	78·3	+1·3	71		76	0	5·3	60·32	+4·35	87	+10·1	3·08

(b) Mean of 29 days.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.								Humidity.		Cloud.	Rainfall.				
		At 8 hrs. reduced to 32° F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Mean 8 hrs.		Maximum.			Minimum.			Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
						Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Trincomalee (Ceylon) (39).	January	29·801	—·031	N 31 E	7·5	76·2	72·9	80·5	—2·4	82	74·7	+0·4	71	84	—1	6·1	20·67	+14·92	14	+6·5	6·16
	February	·786	—·031	N 46 E	6·2	78·4	74·3	82·3	—3·6	85	77·6	+2·9	73	82	—2	4·7	2·53	+0·64	2	—0·4	1·62
	March	·787	+·044	S 55 E	4·7	78·9	74·9	85·5	—3·7	88	77·5	+1·6	74	86	+1	3·6	0·65	—0·97	2	—0·4	0·37
	April	·719	+·030	S 57 W	5·4	78·9	76·1	89·1	—3·6	96	77·8	+0·2	74	86	+2	4·4	2·36	+0·52	5	+2·1	1·15
	May	·658	+·020	S 62 W	8·9	81·4	76·4	91·6	—2·3	97	78·3	—0·1	70	78	—3	4·9	3·18	+0·72	4	+0·6	1·62
	June	·624	+·008	S 66 W	13·1	81·6	76·6	92·1	—0·3	95	79·6	+1·3	78	79	—1	6·0	0	—1·54	0	—1·8	0
	July	·660	+·035	S 67 W	9·7	78·9	74·6	92·1	+0·1	96	76·5	—0·9	71	80	0	6·1	2·79	+0·88	4	+1·6	1·78
	August	·649	+·003	S 62 W	12·8	79·7	74·7	92·4	—0·2	95	77·8	+0·9	74	78	—2	7·1	0·41	—3·78	1	—4·0	0·39
	September	·667	—·005	S 66 W	8·8	78·8	73·8	92·2	+0·5	97	76·4	—0·1	73	78	—3	4·9	4·71	+0·09	5	—1·1	2·15
	October	·722	+·012	S 68 W	6·5	79·2	74·6	91·7	+2·3	97	76·4	+1·0	72	80	—6	4·7	6·68	—0·91	8	—2·7	2·13
	November	·774	+·035	S 6 W	4·6	77·7	75·4	83·1	—2·6	89	74·9	+0·3	72	88	0	5·5	11·65	—2·63	15	+1·2	2·35
	December	·749	—·020	N 53 E	(b) 5·6	(a) 76·3	(a) 74·4	(a) 84·6	+1·6	84	74·2	0	71	(a) 91	+4	7·5	17·47	+3·57	18	+4·1	3·10
	Year	29·716	+·008	...	7·7	78·8	74·9	88·1	—4·2	97	76·8	+0·6	70	83	·0	5·5	73·10	+11·51	78	+5·7	6·16
Hambantota (Ceylon) (61).	January	29·807	—·044	N 30 E	12·8	73·0	70·7	84·9	+0·5	88	72·3	+0·1	67	66	—2	4·4	6·54	+3·42	8	+2·3	2·75
	February	·790	—·058	N 34 E	13·5	74·3	71·9	86·2	+0·4	88	73·5	+1·9	69	88	—1	3·9	1·64	+0·49	3	+0·3	1·42
	March	·808	—·020	N 8 E	10·5	75·4	73·0	88·4	+1·4	92	74·7	+0·6	71	88	—2	3·2	0·17	—3·45	1	—4·1	0·10
	April	·754	—·023	N 43 W	6·9	77·7	75·2	88·1	—0·2	92	76·2	+0·5	74	88	—2	4·1	11·91	+8·45	11	+5·1	3·38
	May	·729	—·006	N 81 W	13·2	81·6	78·2	87·7	—0·2	92	77·9	+0·5	74	85	—4	5·0	1·84	—1·93	4	—1·6	0·91
	June	·722	—·001	S 87 W	15·2	80·2	77·0	85·6	—2·0	94	77·2	+0·1	75	87	—2	5·3	4·76	+2·60	13	+7·1	1·14
	July	·742	+·010	N 87 W	12·6	79·0	75·5	85·7	—1·6	92	76·0	—0·4	72	84	—5	3·6	1·73	—0·71	3	—2·3	1·26
	August	·737	—·021	S 87 W	13·6	78·0	74·8	87·0	—0·3	92	75·5	—0·8	72	86	—3	4·3	4·44	+3·13	9	+6·0	2·23
	September	·745	—·023	S 84 W	13·0	78·6	75·2	85·6	—1·3	93	75·7	—0·3	73	84	—5	4·1	1·75	—0·18	5	+0·7	0·56
	October	·787	—·009	S 88 W	(a) 12·9	80·3	76·0	86·7	—0·1	94	75·9	+0·7	72	81	—8	3·2	2·02	—1·89	4	—3·5	0·83
	November	·806	+·018	N 5 W	7·7	78·1	74·9	85·3	—0·6	88	73·7	—0·4	72	86	—4	4·2	8·13	+2·94	9	+0·6	2·58
	December	·773	—·046	N 8 E	8·1	76·9	74·4	83·6	—0·6	87	73·7	+1·2	70	88	—3	5·9	10·91	+5·11	12	+2·5	5·05
	Year	29·766	—·019	...	11·7	77·8	74·7	86·2	—0·4	94	75·2	+0·3	67	86	—3	4·2	55·84	+18·58	82	+13·1	5·05

(a) Mean of 30 days.

(b) Mean of 29 days.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.								Humidity.		Cloud.	Rainfall.				
		At 8 hrs. reduced to 32° F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Mean 8 hrs.		Maximum.			Minimum.			Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
						Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Nuwara Eliya (Ceylon) (6,188).	January	24·075	..	..	..	49·5	48·9	68·4	..	75	48·3	..	32	97	..	7·2	8·47	..	11	..	1·52
	February(d)	(c) ·080	..	..	..	48·2	46·8	70·6	..	75	45·9	..	36	90	..	6·9	1·40	..	3	..	0·58
	March	·090	..	..	..	47·2	45·7	72·5	..	79	45·5	..	38	90	..	4·5	2·33	..	3	..	1·16
	April	·062	..	..	..	52·1	51·8	71·6	..	75	50·3	..	44	97	..	4·2	11·13	..	18	..	2·42
	May	·060	..	..	..	60·3	59·0	72·1	..	77	53·1	..	41	89	..	6·5	4·09	..	7	..	1·17
	June	·030	..	..	..	59·4	58·3	65·8	..	72	56·6	..	55	94	..	9·7	15·43	..	21	..	1·65
	July	·042	..	..	..	58·5	56·6	66·5	..	71	54·5	..	53	88	..	8·3	2·75	..	7	..	0·55
	August	·092	..	..	..	57·8	57·1	63·5	..	72	55·4	..	51	97	..	9·8	19·54	..	28	..	1·81
	September	·038	..	..	..	58·3	56·9	66·1	..	73	53·9	..	48	91	..	8·3	8·42	..	18	..	2·46
	October	·069	..	..	..	59·2	57·4	68·5	..	71	51·7	..	46	89	..	6·1	7·60	..	7	..	2·37
	November	·077	..	..	..	58·6	57·3	69·7	..	74	50·9	..	45	92	..	5·0	13·37	..	16	..	2·50
	December	·051	..	..	..	58·2	56·7	67·6	..	72	52·6	..	35	92	..	5·8	16·28	..	16	..	5·02
	Year	24·064	..	..	..	55·7	54·7	68·5	..	79	51·5	..	32	92	..	6·9	110·81	..	155	..	5·02
Gyantse (Tibet) (13,110).	January	18·446	..	S 45 E	3·6	15·8	..	40·7	—1·5	49	6·4	+3·1	1	..	..	1·0	0	—0·01	0	—0·1	0
	February	·358	..	S 40 E	7·4	24·6	..	45·4	+0·6	51	13·7	+4·8	3	..	..	3·0	0	—0·04	0	—0·2	0
	March	·481	..	S 18 E	5·7	31·2	..	48·8	—1·9	61	17·7	+1·5	6	..	..	1·6	0	—0·06	0	—0·3	0
	April	·524	..	S 20 E	4·8	43·1	..	57·0	—0·8	68	29·1	+3·7	20	..	..	3·1	0·50	+0·25	2	+1·2	0·20
	May	·493	..	S	4·0	48·8	..	61·2	—4·6	71	34·5	+2·2	29	..	..	4·3	0·43	—0·04	2	+0·3	0·17
	June	·480	..	S 18 E	4·0	55·0	..	69·8	—2·8	77	42·8	+1·7	37	..	..	5·4	1·98	+0·99	3	—1·0	0·84
	July	·491	..	S 14 E	2·4	54·7	..	68·9	—3·6	78	46·3	+2·6	42	..	..	8·0	4·39	+1·38	12	+4·7	0·67
	August	·543	..	S 5 W	2·5	52·7	..	68·8	—1·4	74	44·9	+2·8	41	..	..	7·3	5·78	+2·56	10	+1·3	1·13
	September	·568	..	S 27 W	2·4	50·4	..	64·4	—5·7	70	41·6	+2·9	35	..	..	6·7	3·37	+2·33	12	+8·4	0·48
	October	·631	..	S 9 E	2·3	44·7	..	61·4	—1·5	66	30·4	+1·5	21	..	..	..	0·06	—0·07	0	—0·4	0·06
	November	·543	..	S 22 E	3·7	30·9	..	51·0	+0·7	64	16·0	+1·9	10	..	..	..	0	—0·08	0	—0·2	0
	December	·495	..	S 45 E	3·0	21·8	..	44·1	+0·5	56	9·7	+5·5	1	..	..	..	0·08	0	0	0	0·08
	Year	18·504	..	..	3·8	39·5	..	56·8	—1·8	78	27·8	+2·9	1	..	..	(z) 4·5	16·51	+7·81	41	+13·7	1·13

(c) Mean of 28 days. (d) Mean of 27 days. (z) Mean of 9 months.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.									Humidity.		Cloud.	Rainfall.				
						Mean 8 hrs.		Maximum.			Minimum.											
		At 8 hrs. reduced to 32° F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.	Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Kashgar (Eastern Turkistan) (4,255).	January	25·588	—·112	E	..	18·2	..	33·3	—0·8	46	13·4	+1·2	4	..	..	4·9	0·01	—0·16	0	—0·8	0·01
	February	·478	—·162	E	..	27·7	..	39·0	—4·2	52	21·0	+1·2	14	..	..	5·0	0·05	—0·12	0	—0·5	0·04
	March	·433	—·077	N 27 E	0·4	46·9	42·1	64·3	+6·8	83	36·1	+1·0	25	65	+8	3·7	0·01	—0·30	0	—0·7	0·01
	April	·423	—·087	N 27 W	1·0	60·7	51·4	78·7	+6·7	101	50·2	+1·7	41	50	+3	4·4	0	—0·24	0	—0·9	0
	May	·372	—·128	N 20 W	1·8	66·8	57·4	83·7	+1·7	94	56·2	—1·7	43	55	+9	2·4	0·04	—0·61	0	—1·2	0·04
	June	·352	—·058	N 18 W	2·0	75·1	66·0	91·1	+1·2	98	61·3	—2·8	49	62	+18	1·4	0·19	—0·08	0	—0·8	0·09
	July	·258	—·112	N 63 W	2·0	78·1	67·6	93·3	+0·8	106	66·9	—0·8	59	58	+9	1·3	0·66	+0·42	1	+0·2	0·52
	August	·304	—·146	N 45 W	1·2	78·3	69·0	95·6	+5·1	105	65·4	—0·3	58	61	+7	0·5	0·03	—0·50	0	—1·6	0·02
	September	·457	—·113	N 45 E	0·7	71·4	59·6	83·7	+4·9	100	56·3	—0·7	49	48	—7	0·5	0·08	—0·19	0	—0·7	0·08
	October	·608	—·072	Calm	0·2	56·6	49·5	73·8 (a)	+2·9	93	45·2	+2·5	29	59	+2	1·7	0·65	+0·63	1	+0·9	0·58
	November	·622	—·108	Calm	0	37·6	34·9 (m)	53·4	+0·1	65	27·8	—0·7	23	53 (m)	—14	1·8	0	—0·15	0	—1·1	0
	December	·614	—·136	Col.	0	23·9	..	39·2	+1·0	50	17·9	+1·2	10	..	..	2·4	0	—0·14	0	—0·4	0
	Year	25·463	—·107	..	0·8	53·4	..	69·5	+2·3	106	43·1	+0·1	4	57 (x)	+4	2·6	1·72	—1·44	2	—7·6	0·58
Aden (Arabia) (98).	January	29·393	—·018	N 62 E	10·7	75·1	70·5	83·6	+3·7	85	73·4	+0·8	70	79	+3	4·4	0	—0·32	0	—0·8	0
	February	·334	—·052	N 61 E	6·1	77·1	72·7	84·8	+4·0	89	75·4	+2·1	73	80	+3	6·1	0·23	+0·04	1	+0·6	0·20
	March	·351	+·024	N 51 E	5·8	78·8	75·1	87·5	+4·1	90	76·7	+1·4	73	84	+7	4·5	0	—0·48	0	—0·6	0
	April	·769	—·002	N 62 E	6·7	81·8	77·5	91·2	+3·0	96	79·3	+1·3	77	81	+5	3·1	0	—0·18	0	—0·3	0
	May	·716	+·013	N 47 E	5·3	85·3	80·5	96·3	+3·6	101	81·6	+0·1	78	80	+4	3·2	0	—0·13	0	—0·3	0
	June	·626	+·039	S 82 E	8·8	88·1	84·9	96·3	+1·4	101	85·7	+1·6	83	88	+16	4·9	0	—0·06	0	—0·1	0
	July	·564	+·013	S 5 E	9·9	87·8	83·5	95·1	+1·6	99	85·3	+2·6	76	82	+10	3·7	0	—0·03	0	0	0
	August	·568	—·010	S 11 W	14·4	81·2	76·4	92·2	+0·1	107	74·8	—5·9	63	78	+4	5·7	0	—0·12	0	—0·3	0
	September	·665	0	N 71 E	6·7	85·0	81·1	95·1	+1·9	99	82·5	+0·1	73	83	+6	4·4	1·98	+1·83	1	+0·7	1·93
	October	·777	—·026	N 60 E	7·3	82·8	77·5	94·5	+4·9	99	79·7	+1·8	73	77	+5	2·2	0	—0·09	0	—0·2	0
	November	·866	—·012	N 56 E	6·9	77·6	72·0	88·8	+4·1	94	74·9	+0·3	71	75	+2	4·0	0	—0·08	0	—0·1	0
	December	·924	+·005	N 49 E	5·3	74·4	67·9	85·1	+4·0	89	71·6	—1·5	67	70	—4	5·5	0·06	—0·05	0	—0·2	0·06
	Year	29·755	—·002	..	7·8	81·3	76·6	90·9	+3·1	107	78·4	+0·4	67	80	+5	4·3	2·27	+0·33	2	—1·6	1·93

(a) Mean of 30 days. (m) Mean of 18 days. (x) Mean of 9 months.

MONTHLY AND ANNUAL TABLE D-3 FOR 1931—*concld.*

Abstract of 8 hrs. (local time) observations.

Station and height of barometer above sea-level in feet.	Month.	Pressure.		Wind.		Temperature.								Humidity.		Cloud.	Rainfall.				
		At 8 hrs. reduced to 32° F. and standard gravity.	Departure from normal.	Mean direction at 8 hrs.	Mean velocity in miles per hour.	Mean 8 hrs.		Maximum.			Minimum.			Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
						Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Zanzibar (East Africa) (56).	January	29·838	—·007	N 18 E	4·5	83·7	78·3	87·9	+1·7	90	81·0	+1·5	78	77	—4	7·2	2·54	—0·29	8	+3·1	0·57
	February	·823	—·020	N 31 E	3·5	84·3	79·2	87·9	+1·0	93	80·6	+0·7	75	79	0	7·9	10·93	+3·73	12	+3·4	2·65
	March	·855	+·017	S 81 W	3·1	83·9	79·0	88·7	+1·9	92	80·8	+1·4	76	79	—3	7·5	3·05	—3·01	8	—0·4	1·07
	April	·871	+·008	S 35 W	5·6	80·8	77·4	85·7	+1·2	91	78·5	+1·1	75	85	—1	8·0	14·35	+0·28	15	—0·1	3·19
	May	·922	—·006	S 29 W	6·8	78·4	75·4	83·1	+0·3	87	76·2	+0·4	73	86	0	8·3	19·42	+3·88	15	+3·5	4·30
	June	30·018	+·026	S 29 W	7·5	76·7	72·3	82·5	+0·7	85	74·9	+0·7	72	79	—5	7·1	0·94	—0·97	4	+0·6	0·46
	July	29·980	—·039	S 38 W	5·8	76·1	73·0	82·4	+1·7	84	74·2	+1·4	73	86	+1	7·6	1·12	—1·24	4	—0·9	0·43
	August	30·014	+·001	S 36 W	5·7	76·3	73·7	83·1	+2·0	86	74·2	+1·5	73	88	+4	7·6	0·66	—1·01	4	—0·2	0·20
	September	29·975	—·018	S 24 W	4·8	76·9	72·9	83·6	+1·2	87	74·0	+0·4	72	82	—1	7·4	2·86	+0·75	6	+1·0	1·23
	October	·973	+·025	S 11 W	3·6	79·2	74·5	84·2	+0·8	86	75·0	—0·2	73	80	—2	7·2	3·72	+0·12	9	+3·2	0·78
	November	·871	—·020	S 53 W	2·8	81·4	76·7	86·0	+1·5	89	77·8	+0·5	75	81	—1	6·9	5·52	—2·01	6	—4·6	2·70
	December	·852	—·003	N 2 E	4·5	81·9	77·4	86·2	+0·3	88	78·9	—0·3	75	81	0	7·7	7·39	+2·09	14	+5·7	1·46
	Year	29·916	—·003	..	4·9	80·0	75·8	85·1	+1·2	93	77·2	+0·8	72	82	—1	7·5	72·50	+12·32	105	+19·8	4·30
Hinaidi (Bagdad) 6 hrs. (G. M. T.) or 8 hrs. 57 mins. (local time) (Iraq) 108 ft.	January	29·948	..	N 68 W	2·0	47·0	43·7	62·0	..	71	40·7	..	26	75	..	4·0	0·41	..	2	..	0·22
	February	·918	..	N 57 W	1·6	49·1	45·4	64·5	..	70	41·9	..	29	73	..	3·5	1·11	..	3	..	0·63
	March	·901	..	N 60 W	2·7	59·8	52·1	75·0	..	93	49·0	..	34	56	..	3·7	0·15	..	0	..	0·07
	April	·775	..	N 68 W	1·8	72·7	60·7	84·4	..	93	58·3	..	47	47	..	3·6	0·81	..	1	..	0·71
	May	·708	..	N 41 W	2·4	83·6	65·0	94·7	..	105	66·4	..	56	36	..	2·5	1·69	..	4	..	0·63
	June	·574	..	N 43 W	3·4	91·9	70·1	104·5	..	114	73·3	..	67	31	..	0·5	0	..	0	..	0
	July	·400	..	N 43 W	4·1	96·0	72·3	111·3	..	116	80·1	..	74	29	..	0	0	..	0	..	0
	August	·396	..	N 42 W	4·4	93·0	71·6	110·7	..	115	78·4	..	72	33	..	0	0	..	0	..	0
	September	·618	..	N 32 W	3·5	89·1	68·4	106·7	..	115	73·1	..	65	32	..	0·8	0	..	0	..	0
	October	·853	..	N 53 W	3·2	72·6	56·7	91·1	..	100	58·3	..	47	32	..	0·9	0	..	0	..	0
	November	29·950	..	N 66 W	2·7	59·7	52·7	73·8	..	90	49·9	..	33	61	..	4·0	0·53	..	1	..	0·37
	December	30·055	..	N 74 W	3·5	44·9	41·2	60·4	..	74	38·4	..	24	72	..	4·0	0·53	..	1	..	0·53
	Year	29·758	..	..	2·9	71·6	58·3	86·6	..	116	59·0	..	24	48	..	2·3	5·23	..	12	..	0·71

Table D-4.—Abstract of observations taken at 8 hrs. (local time) at 18 fourth class stations, in the year 1931.

MONTHLY AND ANNUAL TABLE D-4 FOR 1931.

Abstract of 8 hrs. (local time) observations.

STATION.	MONTH.	WIND.		TEMPERATURE.									HUMIDITY.		CLOUD	RAINFALL				
				Mean 8 hrs.		Maximum.			Minimum.											
		Mean Direction at 8 hrs.	Mean velocity in miles per hour.	Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.		Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20
Lumding (Assam)	January	..	..	55·1	54·6	73·5	—1·0	78	52·2	+4·3	49		97	+2	..	0·30	—0·12	1	+0·1	0·15
	February	..	..	57·4	56·5	77·1	—0·9	87	51·5	+1·2	44		94	+3	..	1·23	—0·66	3	—0·7	0·55
	March	..	..	62·8	60·8	86·2	+1·1	96	57·9	+0·4	49		89	+6	..	2·06	—0·52	5	0	0·80
	April	..	..	74·6	70·1	90·3	+3·2	99	69·0	+4·5	64		79	—1	..	2·32	—1·80	9	—0·6	0·40
	May	..	..	75·9	73·1	87·8	—2·3	97	71·0	+0·4	59		86	+4	..	6·07	+0·33	12	+2·3	1·05
	June	..	..	80·4	77·2	89·7	—1·1	99	75·6	+1·2	71		87	+5	..	10·28	+2·33	12	0	3·30
	July	..	..	81·5	78·1	90·9	—0·4	94	77·1	+2·0	75		85	0	..	5·49	—3·12	10	—3·0	1·40
	August	..	..	81·4	78·7	93·0	+2·3	100	77·9	+1·6	75		89	+2	..	8·29	+0·92	9	—2·4	3·30
	September	..	..	78·2	76·4	87·8	—1·9	91	75·0	+0·4	72		91	+2	..	8·36	+1·43	12	+1·4	2·75
	October	..	..	75·0	73·9	85·9	+0·1	90	72·2	+2·5	68		95	+4	..	3·34	—0·96	7	+1·2	1·15
	November	..	..	63·6	63·1	77·7	—2·5	82	59·7	+0·2	54		97	+2	..	0·72	+0·03	2	+0·6	0·38
	December	..	..	57·1	56·8	73·4	—1·2	77	53·2	+2·8	48		97	+2	..	0·02	—0·39	0	—1·2	0·02
	Year	..	..	70·3	68·3	84·4	—0·4	100	66·0	+1·8	44		91	+3	..	43·48	—2·53	82	—2·4	3·30
Mossa Saloma (Assam)	January	..	..	58·9	56·4	76·3	—2·7	79	51·3	+5·5	46		85	+9	..	0·09	—0·50	0	—1·3	0·05
	February	..	..	63·1	59·3	79·4	—1·1	88	55·3	+6·0	47		78	+1	..	0·21	—1·08	0	—3·3	0·05
	March	..	..	68·9	63·6	87·8	+0·9	98	58·5	+2·2	50		73		..	1·39	—1·22	3	—2·3	0·83
	April	..	..	75·9	70·3	88·2	—0·5	96	63·2	+5·0	63		75	—1	..	5·78	—0·04	15	+3·3	1·43
	May	..	..	78·3	73·8	88·1	—3·4	93	71·1	+2·2	66		80	+3	..	13·04	+4·98	17	+3·6	1·59
	June	..	..	82·2	78·1	89·6	—3·2	96	75·9	+1·5	72		83	+3	..	13·09	—0·13	16	—1·7	1·84
	July	..	..	83·2	79·1	91·4	—1·8	96	77·3	+1·8	75		83	0	..	20·02	+2·05	21	+0·8	3·76
	August	..	..	84·9	80·8	94·1	+0·4	100	78·1	+2·7	76		83	0	..	8·77	—8·07	15	—4·0	1·80
	September	..	..	81·4	77·8	89·5	—3·9	93	75·5	+1·4	72		85	+3	..	8·78	—1·99	15	+0·6	1·80
	October	..	..	80·2	75·7	91·1	+0·5	96	71·2	+3·0	66		80	+1	..	8·63	+3·65	9	+1·4	3·41
	November	..	..	69·8	65·4	83·6	—2·7	88	59·7	+2·7	55		77	0	..	0·65	+0·14	2	+0·8	0·52
	December	..	..	61·7	58·3	78·7	—1·8	85	52·1	+5·2	46		80	+4	..	0·52	+0·08	2	+0·8	0·30
	Year	..	..	74·0	69·9	86·5	—1·6	100	66·2	+2·3	46		80	+2	..	80·07	—2·13	115	—1·3	3·76
Brahmanbaria (Bengal)	January	..	..	57·5	54·5	77·5	—1·7	79	49·7	—2·9	48		81	0	..	0	—0·22	0	—0·7	0
	February	..	..	60·7	56·3	81·6	—0·4	86	52·2	—3·3	49		74	—4	..	0·49	—0·27	1	—1·2	0·26
	March	..	..	70·5	64·6	91·5	+2·6	97	60·8	—3·3	55		71	—6	..	3·15	—0·57	2	—2·4	2·85
	April	..	..	79·7	73·5	98·2	+7·5	99	70·3	+0·7	66		74	—5	..	2·55	—5·10	3	—5·4	1·87
	May	..	..	76·4	68·7	93·8	+2·9	99	66·3	—7·4	60		67	—13	..	16·08	+4·12	18	+6·3	2·50
	June	..	..	82·2	75·7	92·3	+3·1	96	71·5	—8·7	66		78	—10	..	9·73	—6·80	11	—5·4	2·50
	July	..	..	81·4	78·9	88·9	0	91	75·1	—1·2	74		89	+5	..	10·14	—1·57	15	—1·3	2·41
	August	..	..	81·5	79·1	90·5	+1·7	92	76·8	+0·3	75		89	+5	..	8·87	—5·41	10	—7·2	3·20
	September	..	..	81·5	78·9	90·4	+0·4	92	76·7	+0·2	75		89	+6	..	3·30	—1·44	12	—1·1	2·04
	October	..	..	81·0	78·2	91·0	+2·3	93	76·1	+2·8	73		85	+5	..	7·09	+0·83	7	+0·1	2·60
	November	..	..	74·4	70·9	85·3	—0·4	89	67·4	+3·3	64		83	+7	..	3·82	+3·12	3	+1·9	2·50
	December	..	..	66·4	62·7	80·5	+0·1	83	57·4	+3·2	53		81	+4	..	0	—0·31	0	—0·7	0
	Year	..	..	74·5	70·2	88·5	+1·4	99	66·7	—0·9	48		80	0	..	63·22	—14·22	82	—17·1	3·20

MONTHLY AND ANNUAL TABLE D-4 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

STATION.	Month.	WIND.		TEMPERATURE.								HUMIDITY.		CLOUD	RAINFALL.				
		Mean Direction at 8 hrs.	Mean velocity in miles per hour.	Mean 8 hrs.		Maximum.			Minimum.			Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
				Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Goalundo (Bengal)	January	..	..	65·1	60·9	79·2	+5·8	86	53·8	+2·9	49	78	—2	..	0	—0·21	0	—0·7	0
	February	..	..	67·6	62·1	80·2	—1·7	87	56·7	+3·3	45	72	—4	..	1·04	—0·35	3	+0·6	0·50
	March	..	..	76·7	67·9	91·1	+0·3	100	62·0	+0·1	52	61	—13	..	1·54	—0·79	2	—1·8	1·22
	April	..	..	84·6	77·3	97·8	+3·2	104	74·6	+3·5	66	70	—8	..	4·19	—0·08	5	—1·1	1·40
	May	..	..	81·7	77·8	90·8	—2·1	102	73·3	—0·5	67	83	+3	..	14·78	+6·49	14	+4·1	3·62
	June	..	..	86·0	81·7	92·7	+2·8	99	78·4	+2·1	73	82	—3	..	12·30	—0·54	13	—3·4	3·02
	July	..	..	83·2	80·2	88·3	—0·1	92	78·2	+0·9	76	87	+1	..	14·31	+2·61	20	+3·5	2·05
	August	..	..	85·1	80·8	88·1	—0·3	90	80·6	+3·0	74	91	—4	..	7·29	—4·58	15	—1·9	0·82
	September	..	..	83·8	80·4	88·9	—0·6	93	79·0	+1·5	76	85	+3	..	14·30	+5·53	16	+4·0	4·80
	October	..	..	82·1	77·7	87·8	—1·6	93	76·6	+3·5	71	81	+4	..	6·38	+0·77	6	—0·1	2·05
	November	..	..	71·2	67·5	83·1	—1·6	87	64·5	+1·8	60	82	+6	..	3·39	+3·32	3	+2·4	2·00
	December	..	..	63·5	61·1	78·8	+0·8	85	56·3	+4·3	48	86	+8	..	0	—0·23	0	—0·4	0
	Year	..	..	77·5	72·9	87·2	+0·4	104	69·5	+2·2	45	79	—1	..	80·02	+11·94	97	+5·2	4·80
Pabna (Bengal)	January	..	..	62·1	59·4	81·7	+2·5	86	54·1	+1·3	49	85	+3	..	0·16	—0·13	1	+0·4	0·16
	February	..	..	65·0	62·0	81·4	—1·4	91	56·8	+0·9	47	84	+7	..	1·93	+0·86	9	+7·3	0·46
	March	..	..	73·5	67·6	91·0	—0·2	100	62·4	—1·4	55	72	—3	..	2·34	+0·97	3	+0·3	1·56
	April	..	..	82·5	78·7	99·9	+4·0	107	73·8	+2·5	64	83	+4	..	0·04	—2·84	0	—4·7	0·02
	May	..	..	81·5	78·2	92·9	—1·7	111	74·7	+0·1	67	85	+3	..	11·36	+4·28	13	+3·9	1·90
	June	..	..	84·6	81·8	94·5	+3·2	102	78·8	+3·8	73	87	+1	..	10·54	—1·25	13	—1·6	3·35
	July	..	..	81·7	79·6	89·6	—0·8	93	77·8	+1·5	74	91	+4	..	9·57	—2·21	15	—1·7	2·04
	August	..	..	83·8	81·1	90·6	+0·5	93	79·7	+3·4	77	89	+2	..	11·02	+0·75	18	+2·0	2·90
	September	..	..	83·7	80·5	90·5	—1·1	94	78·6	+2·2	75	87	+3	..	8·22	—0·04	14	+2·7	1·91
	October	..	..	81·1	77·4	89·6	—1·5	95	75·3	+2·4	68	85	+5	..	2·50	—2·93	8	+2·6	0·58
	November	..	..	70·9	67·4	83·6	—2·9	90	63·3	—0·5	57	82	+3	..	3·51	+2·96	2	+1·2	2·47
	December	..	..	64·4	61·1	81·1	+1·1	85	56·6	+2·1	50	81	+1	..	0	—0·19	0	—0·4	0
	Year	..	..	76·2	72·9	88·9	+0·2	111	69·3	+1·5	47	84	+3	..	61·19	+0·23	96	+12·0	3·35
Jamshedpur (Chota Nagpur).	January	..	..	60·2	57·2	81·8	..	87	54·7	..	49	85	..	..	0·10	..	1	..	0·10
	February	..	..	65·0	61·9	81·8	..	92	60·4	..	49	84	..	..	3·89	..	7	..	1·17
	March	..	..	72·6	65·2	91·7	..	104	64·2	..	55	65	..	..	0·86	..	3	..	0·40
	April	..	..	86·0	73·2	106·1	..	112	75·7	..	70	51	..	..	0·09	..	0	..	0·09
	May	..	..	86·8	77·1	104·1	..	113	78·2	..	72	63	..	..	1·92	..	5	..	0·43
	June	..	..	88·3	79·4	103·0	..	115	79·9	..	72	66	..	..	5·61	..	9	..	2·56
	July	..	..	89·7	78·0	89·0	..	95	77·1	..	74	89	..	..	12·55	..	20	..	2·23
	August	..	..	81·6	79·4	89·9	..	95	78·1	..	75	91	..	..	15·60	..	19	..	2·02
	September	..	..	81·5	78·4	89·8	..	93	77·0	..	72	85	..	..	7·58	..	10	..	2·58
	October	..	..	77·8	74·7	86·8	..	92	72·7	..	65	86	..	..	3·23	..	6	..	0·92
	November	..	..	65·1	63·2	82·0	..	89	59·6	..	53	89	..	..	2·63	..	2	..	1·45
	December	..	..	57·6	55·7	77·7	..	81	52·0	..	45	83	..	..	0·02	..	0	..	0·02
	Year	..	..	75·3	70·3	90·3	..	115	69·1	..	45	79	..	..	54·23	..	82	..	2·58

MONTHLY AND ANNUAL TABLE D-4 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

STATION.	Month.	WIND.		TEMPERATURE.									HUMIDITY.		CLOUD	RAINFALL.				
		Mean Direction at 8 hrs.	Mean velocity in miles per hour.	Mean 8 hrs.		Maximum.			Minimum.				Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
				Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.									
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20
Gurdaspur (Punjab)	January	..	..	47·6	45·1	..	..	..	42·3	..	35		81	..	6·8	0·72	..	3	..	0·49
	February	..	..	47·1	45·6	..	..	..	43·0	..	34		89	..	10·7	2·53	..	5	..	0·74
	March	..	..	60·9	54·7	88·7 (a)	..	98	52·5	..	41		66	..	3·0	0·96	..	1	..	0·71
	April	..	..	79·6	61·8	96·6	..	107	64·6	..	56		31	..	4·3	0·60	..	1	..	0·55
	May	..	..	86·7	66·7	102·0	..	110	73·4	..	60		31	..	3·9	1·21	..	3	..	0·40
	June	..	..	91·0	70·5	107·0	..	115	76·5	..	68		33	..	2·9	0·07	..	0	..	0·07
	July	..	..	84·5	75·7	97·7	..	113	77·2	..	71		64	..	6·5	4·42	..	8	..	1·61
	August	..	..	82·7	78·5	92·4	..	100	77·8	..	71		83	..	8·8	11·94	..	15	..	2·10
	September	..	..	80·0	75·1	93·1	..	97	74·0	..	66		78	..	3·9	3·74	..	4	..	2·66
	October	..	..	72·3	66·6	89·8	..	98	64·6	..	51		74	..	3·2	0·53	..	1	..	0·53
	November	..	..	59·5	53·3	83·1	..	87	48·4	..	41		65	..	2·8	0	..	0	..	0
	December	..	..	48·1	45·0	74·5	..	80	40·9	..	34		78	..	2·5	0	..	0	..	0
	Year	..	..	70·0	61·5	92·5 (c)	..	115	61·3	..	34		64	..	4·6	26·72	..	44	..	2·66
Sargoda (Punjab)	January	N 45 W	0·8	46·7	43·0	69·3	..	77	40·4	..	32		80	..	2·5	0·58	..	1	..	0·58
	February	N 45 W	1·3	48·4	44·5	66·4	..	75	40·6	..	30		71	..	3·2	0·14	..	1	..	0·11
	March	N 11 E	1·3	62·6	55·5	86·2 (b)	..	98	49·8	..	39		61	..	2·1	0·01	..	3	..	0·56
	April	N 87 W	1·7	80·1	64·3	97·8	..	109	63·2	..	54		37	..	3·4	0·23	..	1	..	0·14
	May	N 34 E	2·1	86·0	66·9	102·2	..	110	70·9	..	58		33	..	2·3	1·28	..	2	..	0·87
	June	N 12 W	1·8	91·9	71·3	107·4	..	117	77·6	..	71		33	..	3·3	1·04	..	3	..	0·51
	July	N 85 E	2·3	85·7	77·3	99·2	..	114	77·1	..	70		66	..	2·7	4·19	..	6	..	1·63
	August	N 67 E	2·1	86·8	80·5	99·0	..	109	80·4	..	73		74	..	3·1	2·87	..	3	..	1·73
	September	N 53 E	1·5	82·2	75·2	96·1	..	101	73·5	..	69		71	..	1·1	1·07	..	3	..	0·56
	October	N 79 E	1·3	72·7	66·8	90·9	..	99	62·8	..	49		72	..	0·9	0·88	..	3	..	0·56
	November	N 45 W	0·8	57·7	53·1	81·1	..	85	47·6	..	42		72	..	1·4	0	..	0	..	0
	December	W	0·8	43·8	42·9	72·0	..	77	36·9	..	29		92	..	1·6	0	..	0	..	0
	Year	..	1·5	70·3	61·6	88·6	..	117	60·1	..	29		63	..	2·3	13·49	..	26	..	1·73
Jammu (Kashmir)	January	N 35 E	..	53·2	47·4	69·1	+3·2	78	49·9	+1·7	44		62	−9	4·5	1·74	−0·64	3	−0·8	0·75
	February	N 51 E	..	51·9	47·8	64·2	−4·5	72	48·5	−2·4	39		74	+7	5·6	2·41	+0·05	4	+0·5	0·98
	March	N 20 E	..	65·3	54·7	79·4	+1·7	97	60·1	+2·0	46		48	−6	2·6	2·11	−0·54	3	−1·5	1·48
	April	N 21 E	..	80·6	61·4	95·6	+7·5	105	73·6	+6·6	65		29	−17	4·3	0	−1·73	0	−3·6	0
	May	N 30 E	..	84·7	65·7	100·0	+1·5	109	77·8	+0·9	61		33	−7	3·3	2·09	+1·30	4	+1·6	1·03
	June	N 24 E	..	91·9	69·2	105·2	+4·2	114	83·9	+2·2	76		29	−22	2·0	0·24	−8·34	1	−3·4	0·24
	July	N 72 E	..	84·0	75·3	95·6	+0·1	112	79·4	+0·4	70		66	−4	4·2	7·63	−5·72	9	−1·8	2·48
	August	N 36 E	..	81·8	78·0	92·0	−0·2	99	78·0	+1·0	73		83	+6	5·8	19·18	+4·79	17	+4·9	2·95
	September	N 32 E	..	79·8	73·2	91·5	−0·6	96	76·2	+1·6	70		72	+4	2·6	5·48	+2·38	6	+2·4	3·80
	October	N 24 E	..	73·5	65·2	86·8	−1·6	94	69·1	+2·5	58		62	+8	2·3	2·84	+2·14	2	+0·7	2·55
	November	N 37 E	..	61·3	52·4	79·3	+1·7	83	57·5	+2·1	54		52	−6	2·0	0	−0·26	0	−0·7	0
	December	N 21 E	..	53·3	46·7	71·6	+4·2	77	50·4	+2·4	45		59	−6	1·5	0	−0·89	0	−2·5	0
	Year	..	..	71·8	61·4	85·9	+1·5	114	67·0	+1·7	39		56	−4	3·4	43·72	−2·46	49	−4·2	3·80

(a) Mean of 18 days. (c) Mean of 10 months. (b) Mean of 30 days.

MONTHLY AND ANNUAL TABLE D-4 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

STATION.	Month.	Wind.		Temperature.								Humidity.		Cloud	Rainfall.				
		Mean Direction at 8 hrs.	Mean velocity in miles per hour.	Mean 8 hrs.		Maximum.			Minimum.			Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
				Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Kargil (Kashmir)	January	N 15 W	..	17·0	..	33·3	+6·5	44	12·0	+11·7	1	..	..	6·8	1·04	−0·42	2	−1·9	0·41
	February	N 73 E	..	12·0	..	25·3	−4·2	31	3·5	+1·2	−6	..	..	6·7	2·66	+1·58	7	+4·1	1·02
	March	N 88 E	..	23·1	..	38·4	−3·2	54	16·7	+1·9	4	..	..	4·3	0·50	−0·68	2	−0·8	0·22
	April	N 67 W	..	43·9	36·2	61·1	+3·0	69	37·8	+7·3	31	48	−17	5·0	1·24	−0·48	3	−0·8	0·77
	May	N 81 W	..	51·5	43·8	70·2	−2·5	75	46·0	+4·4	43	55	+3	5·0	3·58	+2·79	6	+4·4	0·87
	June	N 42 W	..	60·6	52·3	76·3	−6·7	83	55·2	+4·4	49	57	+15	3·5	0·06	−0·06	0	−0·7	0·02
	July	N 50 W	..	64·7	54·5	82·3	−6·8	91	59·2	+3·1	52	53	+13	3·7	0·57	+0·40	1	+0·4	0·49
	August	N 37 W	..	67·2	57·5	85·2	−3·6	93	62·5	+6·6	58	54	+14	3·9	0·43	+0·17	2	+0·8	0·19
	September	S 63 W	..	60·6	52·8	78·9	−1·3	85	55·5	+8·0	51	59	+17	3·3	0·07	−0·10	0	−0·8	0·06
	October	S 6 W	..	50·0	44·5	68·7	+1·2	84	45·2	+10·4	34	63	+18	2·6	0	−0·37	0	−0·5	0
	November	S 60 W	..	38·8	..	51·7	+0·3	60	29·9	+10·2	23	..	..	4·0	0·24	+0·12	1	+0·6	0·20
	December	S 83 W	..	24·1	..	40·9	+4·9	51	29·3	+10·8	10	— (g)	— (g)	4·1	0·07	−0·66	0	−1·8	0·06
	Year	..	..	42·4	..	59·4	−1·0	93	37·0	+6·7	−6	56	+9	4·4	10·46	+2·29	24	+3·0	1·02
Bannu (N.W.F. Province)	January	..	..	47·2	41·4	68·5	..	76	42·3 (e)	..	36	55 (e)	..	3·2	0·79	..	1	..	0·55
	February	..	..	47·3	42·0 (e)	63·7	..	72	41·7 (e)	..	35	59	..	1·5	0·28	..	1	..	0·10
	March	..	..	60·8	51·1	80·7	..	97	53·6	..	35	47	..	2·1	1·10	..	3	..	0·86
	April	..	..	71·7	60·7	92·9	..	103	65·7	..	54	50	..	2·9	0·17	..	0	..	0·07
	May	..	..	78·4	66·2	97·7	..	106	70·9	..	60	50	..	2·3	3·15	..	5	..	1·60
	June	..	..	87·6	70·2	105·8	..	114	78·8	..	72	38	..	1·9	0·38	..	1	..	0·36
	July	..	..	86·1	75·3	103·5	..	112	80·0	..	70	58	..	2·9	2·72	..	4	..	1·32
	August	..	..	88·5	79·6	103·5	..	110	84·2	..	74	66	..	3·3	1·31	..	3	..	0·98
	September	..	..	79·7	72·4	98·7	..	102	74·3	..	67	68	..	1·9	2·12	..	2	..	1·92
	October	..	..	69·5	63·7	90·5 (i)	..	99	64·5	..	51	70	..	1·1	6·89	..	1	..	0·34
	November	..	..	54·7	50·1	81·8	..	86	50·5	..	45	71	..	1·2	0	..	0	..	0
	December	..	..	48·4	42·3	73·3	..	80	43·3	..	34	56	..	0·6	0·10	..	1	..	0·10
	Year	..	..	68·3	59·6	88·4	..	114	62·5	..	34	57	..	2·1	12·51	..	22	..	1·92
Razmak (N.W.F. Province)	January	..	..	33·4	(a) 33·1	47·4	..	59	(f) 31·2	..	22	(a) 67	..	3·4	5·12	..	4	..	2·25
	February	..	..	27·5	.. (k)	41·1	..	49	(c) 25·9 (c)	..	20	.. (k)	..	..	2·14	..	6	..	0·67
	March	..	..	44·9	39·2	58·5	..	74	41·1	..	24	34	..	..	0·29	..	1	..	0·19
	April	..	..	60·3	46·9	69·0	..	79	57·8	..	45	35	..	4·2	3·69	..	10	..	0·90
	May	..	..	64·9	51·6	74·1	..	83	58·5	..	44	39	..	3·1	3·74	..	6	..	1·90
	June	..	..	72·6	56·8	80·1	..	90	60·6	..	47	37	..	2·5	2·35	..	6	..	0·73
	July	..	..	72·9	59·2	80·0	..	87	61·6	..	52	46	..	1·5	3·81	..	9	..	0·75
	August	..	..	73·5	63·4	82·5	..	86	64·5	..	59	58	..	1·2	2·85	..	9	..	0·67
	September	..	..	66·1	54·1	77·3	..	80	53·1	..	54	46	..	0·9	0·65	..	1	..	0·45
	October	..	..	56·5	45·8	69·8	..	79	48·9	..	35	44 (e)	..	0·9	1·25	..	7	..	0·32
	November	..	..	47·5	(e) 37·2	62·3	..	69	40·9	..	35	34	..	1·7	0·03	..	0	..	0·03
	December	..	..	36·5	.. *	52·3	..	59	32·8	..	28	.. *	..	2·3 *	0·21	..	1	..	0·21
	Year	..	..	54·6	50·5	66·2	..	90	43·5	..	20	41	..	2·2	26·14	..	60	..	2·25

(c) Mean of 29 days. (e) Mean of 27 days. * Mean of 9 months. (f) Mean of 26 days. (g) Mean of 7 months.
(k) Mean of 21 days. (a) Mean of 19 days. (a) Mean of 10 days. (i) Mean of 23 days.

MONTHLY AND ANNUAL TABLE D-4 FOR 1931—*contd.*

Abstract of 8 hrs. (local time) observations.

STATION.	Month.	WIND.		TEMPERATURE.									HUMIDITY.		CLOUD	RAINFALL.				
				Mean 8 hrs.		Maximum.			Minimum.											
		Mean Direction at 8 hrs.	Mean velocity in miles per hour.	Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.		Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20
Wana (N. W. F. Province.)	January	..	..	32·5	..	54·8	..	64	26·5	..	21		..	..	..	2·41	..	4	..	1·18
	February	..	..	33·1	..	48·6	..	59	29·0	..	21		..	..	..	2·79	..	3	..	0·85
	March	..	..	42·8	41·2	68·5	..	84	38·0	..	27		66 (g)	..	..	0·31	..	2	..	0·14
	April	..	..	57·5	50·3	81·3	..	90	52·6	..	45		62	..	..	0·89	..	3	..	0·50
	May	..	..	63·7	53·4	84·1	..	94	57·7	..	48		50	..	..	1·83	..	4	..	0·98
	June	..	..	70·5	57·6	91·6	..	98	64·1	..	55		46	..	..	0·44	..	1	..	0·30
	July	..	..	72·3	64·2	92·5 (g)	..	101	67·5	..	59		65	..	..	1·71	..	4	..	0·68
	August	..	..	76·0	68·3	14·9	..	99	71·6	..	65		69	..	..	1·32	..	4	..	0·41
	September	..	..	66·5	58·7	90·0	..	94	61·9	..	55		63	..	..	0·46	..	1	..	0·41
	October	..	..	55·1	49·6	80·6	..	90	50·1	..	35		69	..	..	0·66	..	1	..	0·66
	November	..	..	39·3	36·6 (f)	70·9	..	75	35·2	..	29		73 (f)	..	..	0	..	0	..	0
	December	..	..	31·0	..	60·7	..	68	27·1	..	17		..	..	..	0·13	..	0	..	0·05
	Year	..	..	53·4	52·3*	75·1†	..	101	48·6	..	17		63*	..	..	12·95	..	32	..	1·18
Duzdap (Baluchistan)	January	S 45 W	5·2	37·5	..	58·4	..	76	33·0	..	21		..	..	2·7	0	..	0	..	0
	February	N 45 W	6·4	35·2	..	44·6	..	59	21·6	..	17		..	..	5·9	1·55	..	4	..	0·61
	March	S 6 E	6·5	47·0	42·9	68·5	..	84	42·5	..	32		72	..	1·5	0·47	..	2	..	0·32
	April	S 21 W	6·9	60·4	52·3	80·3	..	89	54·7	..	46		62	..	1·2	0·29	..	1	..	0·19
	May	N 70 W	6·3	64·5	54·4	..	..	..	58·3 (b)	..	48		51	..	0·4	0·08	..	0	..	0·08
	June	Closed.																		
	July																			
	August																			
	September																			
	October																			
	November																			
	December																			
	Year																			
Bidar (Hyderabad) (Dn.)	January	S 39 E	6·7 (b)	65·5	57·5	84·0	+0·6	87	62·1	+1·6	58		59	—1	3·3	0	—0·22	0	—0·4	0
	February	S 13 W	6·7	71·5	62·1	92·2	+3·8	96	68·0	+3·7	63		57	+2	1·5	0	—0·33	0	—0·7	0
	March	S 27 W	6·5	76·9	63·8	96·2	+1·1	101	73·2	+2·8	68		47	0	4·5	0·52	+0·06	1	—0·1	0·44
	April	S 59 W	6·6	84·1	68·0	102·0	+2·9	108	78·8	+3·7	67		42	—5	4·0	1·23	+0·08	3	+0·5	0·67
	May	N 71 W	8·3	85·7	67·6	105·7	+5·2	110	81·2	+4·0	71		35	—17	4·3	0·08	—0·88	0	—2·3	0·03
	June	S 81 W	10·8	78·2	71·5	95 3	+2·6	109	74·0	+1·7	64		72	—4	7·4	6·29	+1·32	8	+1·2	3·55
	July	S 67 W	13·6	72·6	70·4	84·6	—1·1	90	70·7	+1·8	69		90	+6	8·7	17·22	+8·53	10	—2·0	6·82
	August	S 68 W	13·5	72·4	70·3	83·0	—0 7	87	70·2	+2·3	69		90	+5	8·2	4·62	—2·57	8	—3·4	0·98
	September	N 80 W	7·3	72·7	70·7	82·7	—1·5	87	70·4	+2·4	68		90	+7	7·7	9·02	—0·87	12	+0·6	1·49
	October	N 82 W	6·5	71·9	67·9	88·9	—2·6	89	68·9	+1·3	62		81	+12	6·0	1·83	—0·87	3	—0·7	0·97
	November	N 76 E	5·5	69·1	64·0	80·8	—2·5	86	64·2	+0·9	57		75	+12	4·4	2·82	+1·86	5	+3·5	1·32
	December	N 69 E	5·3	64·3	56·9	77·9	—3·5	82	59·5	—0·9	56		61	0	4·4	0·13	—0·14	0	—0·6	0·07
	Year	...	8·1	73·7	65·8	89 0	+0·3	110	70·1	+2·1	56		67	+2	5·4	43·59	+5·84	50	—4·4	6·82

* Mean of 9 months. (g) Mean of 25 days. (b) Mean of 30 days. † Mean of 11 months. (f) Mean of 26 days. (t) Mean of 12 days.

(f) Mean of 22 days.

MONTHLY AND ANNUAL TABLE D-4 FOR 1931—*concld.*

Abstract of 8 hrs. (local time) observations.

STATION.	Month.	WIND.		TEMPERATURE.									HUMIDITY.		CLOUD.	RAINFALL.				
				Mean 8 hrs.		Maximum.			Minimum.											
		Mean Direction at 8 hrs.	Mean velocity in miles per hour.	Dry bulb.	Wet bulb.	Mean.	Departure from normal.	Highest in month or year.	Mean.	Departure from normal.	Lowest in month or year.		Mean 8 hrs.	Departure from normal.	Mean amount 8 hrs.	Total of the month or year.	Departure from normal.	Number of rainy days.	Departure from normal.	Heaviest fall in month or year.
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20
Jogimatti* (Mysore).	January	S 67 E	..	64·1	59·7	76·7	..	80	55·6	..	56		77	..	1·7	0	..	0	..	0
	February	S 39 E	..	70·5	62·3	85·8	..	90	63·9	..	58		63	..	0	0	..	0	..	0
	March	S 60 W	..	75·8	62·5	83·3	..	92	68·0	..	63		45	..	0	0	..	0	..	0
	April	N 82 W	..	74·9	68·2	91·8	..	96	68·2	..	64		71	..	0·1	0·08	..	0	..	0·08
	May	N 72 W	..	72·6	67·3	90·2	..	95	66·0	..	62		76	..	0·9	3·19	..	4	..	1·44
	June	N 75 W	..	68·9	66·9	79·8	..	85	65·5	..	63		90	..	5·7	4·59	..	6	..	1·88
	July	N 71 W	..	65·6	64·8	74·1	..	80	63·5	..	62		95	..	9·7	2·32	..	7	..	0·54
	August	N 77 W	..	65·7	65·0	73·0	..	78	64·1	..	63		96	..	10·0	2·90	..	15	..	0·40
	September	N 68 W	..	65·6	63·4	74·8	..	79	62·6	..	61		89	..	7·4	2·83	..	6	..	0·95
	October	N 68 W	..	66·3	63·1	77·6	..	82	62·0	..	61		84	..	5·0	0·61	..	2	..	0·29
	November	S 67 E	..	65·9	64·0	76·4	..	81	61·5	..	57		90	..	5·5	6·42	..	8	..	2·85
	December	S 69 E	..	64·0	62·0	74·0	..	79	59·0	..	56		89	..	4·2	1·56	..	6	..	0·45
	Year	..	..	68·3	64·1	80·3	..	96	63·6	..	56		80	..	4·2	24·50	..	54	..	2·85
Chumbi (Yatung) (Sikkim).	January	..	..	24·6	..	46·3	+1·8	51	21·3	+0·9	18		..	..	2·6	0	—0·66	0	—1·9	0
	February	..	..	27·6	..	53·9	+10·4	68	23·2	+1·1	19		..	..	3·9	1·28	—0·52	5	+1·6	0·31
	March	..	..	31·9	..	55·6	+4·9	64	27·2	—1·5	18		..	..	3·4	0·87	—1·47	4	—2·4	0·38
	April	..	..	39·2	38·3	62·4	+6·6	65	34·3	—1·0	29		93	+11	2·9	1·93	—2·56	6	—4·9	0·88
	May	..	..	43·8	46·8	62·5	+2·7	71	42·1	—0·6	33		88	+5	4·5	3·00	—1·41	13	+1·4	0·58
	June	..	..	52·4	50·5	65·8	+2·4	72	46·3	—2·9	38		89	+1	4·5	3·76	—3·01	9	—6·4	0·80
	July	..	..	56·6	55·5	66·1	+1·6	69	51·6	0	43		94	+5	6·0	6·57	—0·55	18	—1·4	1·68
	August	..	..	55·8	54·7	68·5	+4·7	75	50·6	—0·4	47		94	+6	5·8	4·32	—2·70	12	—7·7	0·75
	September	..	..	54·3	53·2	63·6	+1·2	69	49·6	+2·2	44		94	+6	7·7	5·18	+0·11	11	—0·9	0·94
	October	..	..	43·2	..	61·7	+3·8	63	38·1	+0·8	24		..	..	2·4	0·66	—1·17	3	—0·8	0·37
	November	..	..	29·8	..	51·6	—0·2	59	25·5	—3·0	22		..	..	1·5	0	—0·24	0	—0·6	0
	December	..	..	24·2	..	50·9	+5·4	57	20·3	—2·2	15		..	..	2·7	0·12	—0·03	1	+0·4	0·12
	Year	..	..	40·7	..	59·0	+0·7	75	35·8	—0·6	15		(*h*) 92	(*h*) +6	4·0	28·29	—14·61	82	—23·6	1·58
Asbadian (Persia) 9 hrs. Observations.	January	N 88 W	6·9	55·3	50·1	66·3	+1·7	75	45·2	—1·4	27		68	—5	3·4	0·39	—1·08	2	—2·3	0·27
	February	S 78 W	4·9	55·9	51·7	67·2	—1·6	77	47·4	—1·4	30		75	+5	4·0	2·80	+0·79	3	+0·3	1·52
	March	S 82 W	9·1	66·8	54·8	77·9	—1·4	93	53·7	—3·0	41		41	—16	2·1	0·01	—0·60	0	—1·5	0·01
	April	S 22 W	6·8	77·9	63·3	87·7(*c*)	—2·8	95	64·1(*c*)	—1·1	51		40	—9	4·0	2·04	+1·55	1	+0·1	1·90
	May	N 36 W	7·6	88·7	67·6	97·9	—4·3	109	73·9	—0·7	66		29	—10	2·1	0·27	+0·11	2	+1·6	0·16
	June	N 64 W	9·5	97·1	70·3	107·9	—1·8	115	79·6	—0·4	73		21	—12	0·1	0	0	0	0	0
	July	N 70 W	11·2	101·4	71·3	112·5	0	118	83·6	+0·4	78		18	—18	0·1	0	0	0	0	0
	August	S 83 W	9·7	97·8	69·9	111·2	—1·1	116	82·0	+0·8	73		20	—15	0·2	0	0	0	0	0
	September	N 84 W	8·0	94·8	70·7	108·1	+0·3	117	77·1	+1·1	68		26	—18	0·1	0	—0·01	0	0	0
	October	N 65 W	8·0	80·4	60·9	95·0	—1·3	108	63·4	—4·1	54		26	—22	0	0	—0·16	0	—0·2	0
	November	N 43 W	6·2	66·9	57·6	78·8	—1·9	91	53·6	—3·6	41		53	—11	2·2	0·18	—1·60	0	—2·5	0·07
	December	N 67 W(*d*)	6·7	53·1	46·7	65·9	—1·9	81	42·4	—5·9	24		58	—18	2·6(*f*)	0·02	—1·03	0	—2·5	0·01
	Year	..	7·9	78·0	61·2	89·7	—1·3	118	63·8	—1·6	24		40	—12	2·6	5·71	—2·03	3	—7·0	1·90

(*h*) Mean of 6 months.

(*c*) Mean of 29 days. (*d*) Mean of 28 days. (*f*) Mean of 26 days.

* Data supplied by the Meteorological. Reported to the Government of Mysore.

Table D-5.—Abstract of observations taken at 8 hrs. (local time) at 29 fifth class stations, in the year 1931.

MONTHLY AND ANNUAL

Abstract of 8 hrs.

Station.	January.					February.					March.				
	Number of rainy days.	Departure from normal.	Rainfall of month.	Departure from normal.	Heaviest rainfall during month.	Number of rainy days.	Departure from normal.	Rainfall of month.	Departure from normal.	Heaviest rainfall during month.	Number of rainy days.	Departure from normal.	Rainfall of month.	Departure from normal.	Heaviest rainfall during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Bengal—															
Comilla	0	—0·8	0	—0·29	0	3	+1·0	1·51	+0·33	0·80	2	—1·7	1·52	—1·43	1·40
Faridpur	0	—0·9	0	—0·45	0	4	+1·8	1·12	—0·20	0·45	1	—2·2	1·15	—1·18	1·00
Sirajganj	0	—0·7	0·03	—0·29	0·03	2	+0·4	0·44	—0·33	0·21	2	—0·3	1·64	+0·31	1·45
Rampur Boalia	0	—0·8	0	—0·35	0	4	+2·5	0·94	+0·36	0·38	2	0	2·93	+1·78	2·58
Malda	0	—0·9	0	—0·55	0	2	+0·3	0·67	—0·17	0·47	2	+0·7	1·08	+0·37	0·90
Rangpur	0	—0·9	0	—0·34	0	1	—0·3	0·19	—0·50	0·15	1	—0·8	1·82	+0·69	1·74
Cooch Behar	0	—0·5	0	—0·19	0	1	—0·8	0·50	—0·37	0·41	2	—0·7	2·32	+0·41	1·38
Krishnagar	0	—0·9	0	—0·44	0	5	+3·3	1·13	—0·07	0·25	2	—0·4	0·73	—1·09	0·37
Bankura	1	—0·2	0·15	—0·36	0·15	9	+7·1	3·75	+2·71	1·29	1	—1·2	1·57	+0·32	1·53
Bihar and Orissa—															
Hazaribagh*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhagalpur	0	—1·0	0	—0·48	0	4	+2·4	0·87	+0·15	0·46	2	+0·6	0·84	+0·27	0·61
Muzaffarpur	0	—1·1	0·04	—0·48	0·04	1	—0·6	0·87	+0·33	0·30	1	—0·1	0·16	—0·31	0·16
Motiharl	0	—1·1	0·02	—0·46	0·02	1	—0·3	0·46	—0·09	0·29	0	—0·9	0·11	—0·39	0·06
Chapra	0	—1·2	0	—0·55	0	3	+1·4	1·89	+1·17	1·47	0	—1·1	0·05	—0·32	0·05
Arrah	0	—1·2	0	—0·63	0	3	+1·5	1·53	+0·79	1·15	0	—1·1	0	—0·47	0
Dehri	0	—1·4	0	—0·58	0	5	+3·2	2·93	+2·20	1·70	1	—0·2	0·21	—0·26	0·21
United Provinces—															
Meerut*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kashmir—															
Sonamarg*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baluchistan—															
Harnai*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pishin	10	+5·9	3·89	+2·04	1·04	10	+6·3	6·30	+4·56	1·35	4	—0·8	2·17	+0·07	0·96
Rajputana—															
Udaipur*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hyderabad (Deccan)—															
Parbhani*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Madras—															
Palamcottah*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hill Stations exclusive of Kashmir—															
Gnatong	2	—1·0	0·25	—2·55	0·10	3	—6·6	0·70	—7·22	0·35	7	—4·8	3·35	—5·17	0·85
Lachung	0	—2·6	0	—0·59	0	11	+3·9	3·58	+0·57	0·99	7	—5·8	3·58	—2·70	1·01
Dharampore*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dalhousie*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bakloh	6	..	3·42	..	1·13	13	..	9·78	..	1·96	4	..	3·16	..	1·88
Kyelang	6	+0·4	2·77	—0·09	1·04	8	+2·1	2·99	+0·30	0·60	6	—1·8	1·61	—2·24	0·56

* The monthly data are published in M. W. R.

TABLE D-5 FOR 1931.

(local time) observations.

APRIL.					MAY.					JUNE.					JULY.				
Number of rainy days.	Departure from normal.	Rainfall of month.	Departure from normal.	Heaviest rainfall during month.	Number of rainy days.	Departure from normal.	Rainfall of month.	Departure from normal.	Heaviest rainfall during month.	Number of rainy days.	Departure from normal.	Rainfall of month.	Departure from normal.	Heaviest rainfall during month.	Number of rainy days.	Departure from normal.	Rainfall of month.	Departure from normal.	Heaviest rainfall during month.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
3	—4·3	2·20	—4·38	1·45	16	+4·5	20·38	+3·61	5·50	13	—4·5	11·67	—6·38	2·12	25	+6·8	26·56	+11·51	3·72
5	—1·4	4·55	—0·17	1·77	18	+7·0	21·01	+11·97	3·63	11	—4·4	10·72	—2·64	5·30	24	+6·4	13·27	+0·44	1·55
4	—0·8	1·10	—2·21	0·43	16	+5·8	11·98	+4·10	2·90	12	—2·7	10·22	—2·19	2·65	16	+0·4	13·73	+2·24	3·66
1	—1·8	0·46	—1·32	1·46	8	+0·6	3·62	—1·65	0·88	13	—0·1	10·65	—0·52	3·33	19	+4·0	13·59	+2·78	2·26
0	—2·1	0	—1·13	0	4	—1·8	2·10	—2·40	0·90	5	—5·6	3·78	—6·57	1·27	20	+5·4	20·26	+9·29	3·16
5	+0·5	4·01	+0·92	1·31	11	—0·7	15·77	+4·84	3·14	14	—2·0	15·39	—2·22	3·52	20	+4·9	29·07	+13·81	3·98
9	+1·7	9·13	+3·70	2·10	22	+7·7	22·76	+6·96	3·32	21	+2·5	31·41	—1·50	4·07	26	+6·4	42·85	+12·01	6·07
1	—3·1	0·51	—2·04	0·47	7	—0·9	8·00	+1·00	2·84	10	—3·0	7·57	—3·09	2·40	20	+4·1	11·07	—0·01	3·29
1	—1·8	0·28	—1·04	0·24	4	—2·1	1·67	—3·17	0·72	8	—3·9	3·45	—7·64	1·03	12	—3·4	11·23	—1·88	5·62
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	—0·5	0·10	—0·63	0·10							Clo sed.								
0	—1·1	0	—0·51	0	2	—1·6	0·65	—1·72	0·40	5	—3·3	3·45	—4·70	2·00	16	+1·5	17·11	+4·64	4·09
0	—1·3	0	—0·88	0	2	—2·2	2·87	—0·11	2·13	2	—7·8	2·00	—7·19	1·82	19	+4·5	26·68	+11·88	4·33
0	—0·8	0	—0·34	0	2	0	1·19	—0·41	1·95	3	—4·6	0·51	—5·34	0·26	18	+4·1	12·05	—0·17	2·35
0	—0·6	0	—0·28	0	0	—2·2	0	—1·44	0	4	—3·9	2·22	—4·56	1·32	19	+4·7	14·48	+1·78	4·35
0	—0·6	0	—0·24	0	0	—1·5	0	—0·83	0	1	—6·5	0·59	—5·48	0·40	21	+7·4	13·63	+3·07	1·95
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	—1·2	0·29	—0·53	0·24	2	+1·4	0·43	+0·24	0·25	1	+0·9	0·24	+0·21	0·24	0	—0·4	0·06	—0·03	0·06
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	+4·8	17·20	+5·38	3·25	27	+2·9	20·55	+2·92	5·65	26	—0·4	26·30	—3·30	2·30	31	+1·8	36·80	—0·20	4·05
13	—2·9	4·46	—2·70	0·79	15	—0·2	4·93	—0·98	0·95	15	—6·8	6·11	—3·56	0·76	26	+1·4	14·79	+4·56	1·18
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	0·18	..	0·18	6	..	3·29	..	1·00	3	..	3·47	..	3·00	19	..	21·47	..	5·60
4	—2·4	1·50	—1·89	0·56	12	+6·6	5·23	+2·93	0·91	1	—2·6	0·48	—0·55	0·32	6	+1·8	2·71	+1·32	1·07

MONTHLY AND ANNUAL

Abstract of 8 hrs.

Station:	August.					September.					October.				
	Number of rainy days.	Departure from normal.	Rainfall of month.	Departure from normal.	Heaviest rainfall during month.	Number of rainy days.	Departure from normal.	Rainfall of month.	Departure from normal.	Heaviest rainfall during month.	Number of rainy days.	Departure from normal.	Rainfall of month.	Departure from normal.	Heaviest rainfall during month.
1	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
Bengal—															
Comilla	13	—4·9	9·65	—6·08	3·93	15	+1·5	12·50	+1·57	4·45	11	+4·9	10·45	+3·93	2·25
Faridpur	13	+0·6	8·76	—8·66	1·40	14	+1·8	15·40	+6·11	4·50	10	+4·6	5·67	+0·93	1·60
Sirajganj	12	—3·4	3·36	—8·14	0·77	14	+2·4	13·52	+3·81	3·83	7	+2·1	1·90	—3·04	0·59
Rampur Boalia	19	+4·4	11·56	+1·24	2·56	11	—1·2	12·57	+2·53	2·90	6	+1·6	1·74	—1·99	0·60
Malda	11	—3·8	4·00	—7·52	0·78	9	—2·2	11·74	+0·95	2·88	5	+0·9	4·19	—0·15	1·35
Rangpur	13	—1·1	11·57	—2·06	3·09	17	+3·9	21·67	+7·93	5·32	5	+0·8	4·22	—1·14	1·21
Cooch Behar	16	—3·2	13·15	—12·00	1·65	22	+6·2	30·99	+4·59	5·89	4	—1·5	3·06	—4·62	1·96
Krishnagar	21	+6·1	12·99	+2·82	1·70	14	+2·9	8·22	+0·19	2·50	8	+3·1	6·35	+1·97	1·95
Bankura	17	+1·2	8·12	—3·35	1·20	10	—1·5	6·36	—2·38	2·70	6	+1·8	2·32	—0·59	0·53
Bihar and Orissa—															
Hazaribagh*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhagalpur							Clo sed.								
Muzaffarpur	9	—4·7	3·96	—9·46	1·00	8	—0·9	7·60	+0·06	2·50	1	—1·5	1·71	—0·86	1·71
Motihari	8	—5·6	3·07	—10·39	0·72	7	—2·1	8·35	—0·93	2·89	2	—0·5	2·38	—0·02	2·14
Chapra	14	+0·5	7·74	—4·12	1·92	9	+0·2	9·60	+2·17	3·80	2	—0·5	3·23	+1·05	1·20
Arrah	18	+3·9	12·69	+1·04	2·62	11	+1·6	9·16	+1·19	2·41	2	—1·1	2·62	+0·68	2·11
Dehri	14	—0·5	9·00	—4·20	2·80	8	—0·8	10·60	+3·72	5·67	3	+0·1	1·71	—0·44	1·30
United Provinces—															
Meerut*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kashmir—															
Sonamarg*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baluchistan—															
Harnai*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pishin	0	—0·4	0	—0·20	0	0	—0·1	0	—0·02	0	0	—0·4	0	—0·17	0
Rajputana—															
Udaipur*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hyderabad (Deccan)—															
Parbhani*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Madras—															
Palamcottah*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hill Stations exclusive of Kashmir—															
Gnatong	30	+2·5	19·90	—3·72	2·75	27	+3·4	21·95	+5·42	3·25	6	—4·5	2·30	—2·33	0·75
Lachung	20	—5·1	5·71	—4·05	0·58	24	+5·1	10·00	+2·69	1·45	8	—5·8	1·67	—1·97	1·03
Dharampore*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dalhousie*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bakloh	21	..	33·63	..	5·50	13	..	18·91	..	5·79	4	..	3·35	..	1·57
Kyelang	5	+1·1	1·94	+0·48	0·70	6	+2·3	2·26	+0·40	0·90	3	+1·8	1·10	+0·39	0·58

* The monthly data are published in M. W. R.

TABLE D-5 FOR 1931—*concld.*

(*local time*) *observations.*

NOVEMBER.					DECEMBER.					YEAR.				
Number of rainy days.	Departure from normal.	Rainfall of month.	Departure from normal.	Heaviest rainfall during month.	Number of rainy days.	Departure from normal.	Rainfall of month.	Departure from normal.	Heaviest rainfall during month.	Number of rainy days.	Departure from normal.	Rainfall of year.	Departure from normal.	Heaviest rainfall during year.
52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
2	+0·6	2·43	+1·40	2·22	0	—0·3	0	—0·23	0	103	+2·8	98·87	+8·56	5·50
4	+2·7	4·15	+3·05	2·85	0	—0·3	0	—0·12	0	109	+15·7	85·80	+14·08	5·30
2	+1·3	1·18	+0·56	0·84	0	—0·3	0	—0·11	0	87	+4·2	59·10	—5·29	3·83
2	+1·3	1·08	+0·59	0·94	1	+0·9	0·25	+0·19	0·17	86	+11·4	59·74	+3·84	3·33
2	+1·3	1·53	+1·18	0·90	0	—0·2	0	—0·05	0	60	—8·9	49·35	—6·75	3·16
0	—0·3	0	—0·21	0	1	+0·8	0·35	+0·31	0·35	88	+4·8	104·06	+22·03	5·32
0	—0·4	0	—0·23	0	0	—0·3	0·10	0	0·09	122	+17·1	155·77	+8·76	6·07
4	+2·8	4·51	+3·53	2·25	0	—0·2	0	—0·09	0	92	+13·8	61·08	+2·68	3·29
2	+0·9	1·40	+0·76	1·04	0	—0·2	0·02	—0·06	0·02	71	—3·3	40·32	—16·68	5·62
..	..	..	..	..	..	..	..	..	..	85	+9·8	52·89	—0·39	3·30
							Closed							
1	+0·6	0·45	+0·22	0·45	0	—0·1	0	—0·06	0	44	—12·9	36·00	—12·85	4·09
1	+0·8	0·70	+0·50	0·70	0	—0·4	0	—0·14	0	42	—16·8	46·64	—8·22	4·32
1	+0·6	1·43	+1·17	1·40	0	—0·3	0	—0·12	0	52	—1·7	37·60	—8·82	3·80
2	+1·5	2·16	+1·89	1·75	0	—0·4	0·05	—0·10	0·05	59	+2·7	44·91	—0·71	4·35
1	+0·4	0·24	—0·22	0·15	0	—0·4	0	—0·22	0	54	—0·8	38·99	—3·48	5·67
..	..	..	..	..	..	..	..	..	..	42	+3·5	38·43	+6·47	5·62
..	..	..	..	..	..	..	..	..	..	135	+29·5	66·56	—4·83	3·03
..	..	..	..	..	..	..	..	..	..	19	—6·7	9·40	—4·77	1·16
0	—0·8	0	—0·25	0	1	—1·9	0·40	—0·88	0·30	29	+3·5	13·78	+5·04	1·85
..	..	..	..	..	..	..	..	..	..	36	+3·3	30·16	+6·38	4·67
..	..	..	..	..	..	..	..	..	..	62	+12·3	45·08	+7·95	4·16
..	..	..	..	..	..	..	..	..	..	17	—24·3	26·35	—1·99	7·90
2	—0·6	0·45	—3·62	0·30	3	—2·2	0·35	—0·57	0·15	187	—2·0	150·10	—19·96	5·65
1	—1·8	0·96	—0·12	0·92	3	+1·4	0·83	+0·28	0·51	138	—19·2	56·62	—8·57	1·45
..	..	..	..	..	..	..	..	..	..	66	..	49·71	..	2·55
..	..	..	..	..	..	..	..	..	..	98	..	76·61	..	4·22
0	..	0	..	0	0	..	0	..	0	90	..	100·66	..	5·79
0	—0·9	0·10	—0·25	0·06	0	—2·6	0·14	—0·88	0·08	57	+7·8	23·03	—0·08	1·07

APPENDIX.

Climatic Tables of Kodaikanal and Madras for 1931 and tables of extra observations taken during the year at Bombay and Trivandrum.

TABLE I.

Height of Barometer cistern above sea level 7,688 feet.

Mean Monthly and Annual Meteorological Results at the Kodaikanal Observatory in 1931.

Latitude—10° 13′ 50″ N — Longitude—5° 9′ 52″ E

	Barometer.		Dry Bulb Thermometer.				Wet Bulb	Tension of Vapour.	Relative Humidity	Min. on Grass.	Wind.			Rain.		Clear Sky.	Bright Sunshine.
	Reduced to 32°.	Daily Range.	Mean.	Max.	Min.	Range.	Mean.	By Simpson's Tables.			Daily Velocity	Mean Direction.		Amount.	Days.		
	Inches.	Inches.	°	°	°	°	°	Inches.	Cents.	°	Miles.	Points.	Points.	Inches.	No.	Cents.	
January	22·864	0·070	55·7	63·5	48·3	15·2	47·4	0·342	83	42·1	218	6	E. N. E.	1·92	6	5·1	206·2
February	·879	·071	60·0	69·7	49·9	19·8	45·7	·359	87	37·9	228	5	N.E./E.	..	..	3·4	292·6
March	·839	·070	60·5	69·3	50·3	19·0	50·3	·380	82	41·6	191	6	E. N. E.	..	..	7·4	287·4
April	·864	·065	61·1	69·0	52·9	16·1	54·7	·362	77	44·7	163	8	E.	6·16	12	5·2	210·0
May	·833	·067	62·9	70·0	55·7	14·3	57·2	·393	84	49·9	161	25	W/N.	6·51	10	4·4	220·6
June	·790	·058	60·4	66·8	55·1	11·7	55·4	·377	80	48·8	183	24	W.	3·51	9	3·0	150·4
July	·789	·057	57·6	63·5	53·2	10·3	53·9	·386	73	48·3	158	23	W.S.	6·59	13	1·8	116·0
August	·773	·067	57·3	62·7	53·7	9·0	54·4	·408	71	50·3	237	23	W/S.	5·61	12	1·5	91·4
September	·770	·069	57·3	63·9	52·7	11·2	53·2	·361	67	45·6	111	30	N N W.	6·66	11	3·7	191·9
October	·834	·075	56·8	63·6	52·5	11·1	53·7	·358	48	45·0	68*	28	N W.	5·85	9	3·4	153·3
November	·848	·074	54·9	61·8	50·1	11·7	52·1	·159	31	47·2	34*	14	S. S. E.	12·14	16	2·2	106·5
December	·827	·074	53·8	59·5	49·4	10·1	50·9	·241	54	45·6	101*	5	N. E./E.	15·69	18	2·4	115·0
Annual	22·829	0·068	58·2	65·3	52·0	13·3	52·4	0·335	70	45·6	159	30	N. N. W.	70·76	116	4·0	2141·3

Extreme Monthly Meteorological Records at the Kodaikanal Observatory in 1931.

	Barometer.					Dry Bulb Thermometer.				Humidity.		Grass Therm.		Wind.				Rain.	
	Highest.		Lowest.		Range.	Highest.		Lowest.		Lowest.		Lowest.		Highest.		Lowest.		Greatest Fall.	
	Inches.	Day.	Inches.	Day.	Inches.	°	Day.	°	Day.	Cents.	Day.	°	Day.	Miles.	Day.	Miles.	Day.	Inches.	Day.
January	22·945	1	22·782	9	0·163	70·6	26,30	44·8	25	4	28	34·1	25	419	15	90	31	0·86	18
February	·965	13	·816	3	·152	74·7	3	45·6	1	7	9	30·6	1	325	24	144	2,22	..	..
March	·963	19	·812	30	·156	72·0	22	45·1	2	10	30	35·1	3	310	19	97	6	..	..
April	·946	2	·806	13	·140	72·2	21	49·7	2	26	25	38·6	11	301	30	91	3	1·89	19
May	·907	14,19, 20	·763	29	·143	73·6	21	52·1	10	25	5	39·6	17	369	1	66	17	2·84	27
June	·890	10	·709	28	·181	73·0	8	51·8	23	41	8	45·0	4	359	28	71	11	1·09	5
July	·877	18	·715	25	·162	66·8	9	50·9	2	56	7	41·0	7	337	2	60	22	1·81	22
August	·853	11	·687	8	·166	65·9	2	51·3	31	44	1	46·6	31	377	19	60	3	2·05	25
September	·863	10	·715	26	·148	66·2	30	51·4	1	30	30	40·3	28	334	1	37	28	1·78	9
October	·908	16	·743	6	·165	66·8	1	50·3	28	45	5	35·7	1	155	15	29	1	1·52	22
November	·903	7,18	·789	21,23	·114	66·8	5	45·3	3	33	27	37·0	16	224	30	26	5	2·65	9
December	·913	27,28	·719	10	·194	65·6	4	45·0	30	13	31	29·0	30	244	22	24	14	5·02	11

* German P. T. Anemograph results not satisfactory.

TABLE II.

Kodaikanal mean hourly wind velocity for the year 1931.

Month.	Hours (local time).																							
	Midt.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
January	10	11	10	9	10	10	10	10	10	11	10	11	10	9	8	7	6	5	7	7	8	9	10	10
February	10	10	10	11	10	10	12	10	11	13	12	12	11	10	8	7	5	5	7	8	7	9	10	10
March	7	7	8	8	9	9	9	10	11	12	11	10	9	8	7	7	6	5	5	6	6	6	7	8
April	7	7	6	6	7	7	6	6	6	7	8	8	8	8	7	8	6	6	6	6	7	6	7	7
May	7	7	7	8	7	7	7	7	6	6	7	7	8	8	7	7	7	5	5	6	7	6	6	6
June	8	8	9	9	9	9	9	8	6	6	7	7	6	7	6	7	7	7	7	9	8	8	8	8
July	8	9	8	7	7	8	8	7	6	6	6	6	6	6	6	5	5	6	6	6	6	6	7	7
August	11	1	10	10	11	11	11	11	10	8	9	9	9	8	8	9	9	10	10	10	10	10	11	11
September	6	5	6	5	5	6	5	5	5	5	4	5	4	4	4	4	3	3	4	4	5	5	4	3
October	3	3	3	3	3	3	3	2	3	2	3	3	3	3	3	3	3	2	3	3	3	3	3	3
November	4	4	3	3	3	3	3	3	4	4	4	4	4	4	3	4	4	3	3	3	3	3	4	4
December	4	5	5	4	3	3	3	2	3	4	5	5	5	5	5	4	4	4	4	4	4	5	5	5
Mean	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	5	6	6	6	6	7	7

G. T. Anemograph results not good.

TABLE III.

Kodaikanal mean hourly bright sunshine for the year 1931.

Month.	Hours (local time).											
	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
January	0·06	0·57	0·62	0·69	0·72	0·69	0·70	0·69	0·62	0·58	0·48	0·22
February	·36	·98	1·00	·99	·99	1·00	1·00	·97	·94	·86	·84	·53
March	·66	1·00	1·00	1·00	1·00	·97	·87	·74	·54	·58	·61	·30
April	·34	·81	·89	·91	·87	·85	·70	·57	·45	·34	·21	·06
May	·27	·82	·90	·90	·89	·84	·72	·57	·42	·37	·30	·13
June	·12	·54	·69	·71	·70	·56	·46	·39	·30	·22	·22	·09
July	·11	·43	·61	·53	·53	·45	·37	·27	·24	·11	·09	·02
August	·06	·20	·40	·48	·46	·41	·25	·21	·19	·11	·13	·04
September	·33	·72	·79	·72	·75	·72	·67	·57	·46	·30	·28	·07
October	·26	·59	·71	·74	·64	·51	·32	·33	·32	·24	·17	·09
November	·02	·37	·46	·53	·47	·45	·43	·34	·21	·17	·07	·01
December	·16	·44	·45	·49	·48	·44	·34	·28	·31	·25	·06	·02
Mean	0·23	0·62	0·71	0·72	0·71	0·66	0·57	0·49	0·42	0·34	0·29	0·13

TABLE IV.

Number of days in each month on which the Nilgiris were visible in 1931.

Month.	Very clear.	Visible.	Just visible.	Tops only visible.	Total.
January	8	5	..	4	17
February	1	21	1	1	24
March	..	10	2	..	12
April	..	6	..	..	6
May	..	3	..	..	3
June	..	13	..	..	13
July	1	15	..	..	16
August	..	5	..	..	5
September	1	19	3	..	23
October	..	14	1	..	15
November	..	11	..	..	11
December	..	7	2	..	9
Total	11	129	9	5	154

TABLE V.

Madras Observatory :—Monthly and Annual abnormals of the meteorological elemznts for 1931.

Abnormals of	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
Atmospheric pressure . .	—0·007	—0·005	+0·020	+0·003	—0·007	—0·020	+0·010	—0·061	—0·028	—0·022	+0·006	—0·039	—0·012
Temperature of air . . .	+1·3	+1·1	+1·1	+0·8	+0·9	+2·1	+0·1	+1·8	+0·3	+1·9	+0·6	+1·0	+1·1
Temperature of evaporation .	+0·7	+0·8	+0·4	+1·2	+1·7	+1·6	+0·9	+0·9	+0·7	+0 8	+1·2	+1·9	+0·2
Percentage of humidity . .	—2	—1	—3	+2	+3	Normal	+4	—3	+2	—3	+3	+5	+1
Maximum in shade . . .	—0·3	—0·2	+0·6	Normal	+0·4	+2·0	—1·2	+1·1	—1·2	+1·7	—0·8	—1·6	Normal
Minimum in shade . . .	+1·5	—0·9	+0·6	+1·5	+0·7	+2·1	+0·1	+1·3	+0·6	+1·3	+1·0	+2·6	+1·2
Minimum on grass . . .	+1·6	+1·0	Normal	+2·1	+0·8	+1·7	—0·5	+0·3	+0·2	+0·2	+0·4	+2·3	+0·9
Rainfall in inches . . .	—0·84	—0·28	—0·39	+0·89	—0·35	+1·37	+1·63	—0·65	+3·84	+1·09	—1·69	+4·89	+9·51
Rainfall since January 1st . .	—	—1·12	—1·51	—0·62	—0·97	+0·40	+2·03	+1·38	+5·22	+6·31	+4·62	+9·51	—
General direction of wind . .	2 points N	Normal	Normal	Normal	Normal	Normal	1 point S	Normal	1 point S	15 pointsW	3 points E	1 point N	1 point S
Daily velocity in miles . .	+10	—18	—14	—15	—31	—24	—42	—5	—31	—2	—26	+23	—14
Percentage of cloudy sky . .	+5	+3	—8	+5	+3	—10	+7	+6	+2	— 2	+9	+19	+3
Percentage of bright sunshine .	+5·0	+3·4	+9·6	+5·1	+5·3	+19·0	—2·1	+12·4	+6·4	+5 7	+0·7	—11·5	+5·5

+ means above normal. — means below normal.

TABLE VI.

Madras Observatory :—Number of hours of wind from each point in 1931.

Month.	N	1	2	3	4	5	6	7	E	9	10	11	12	13	14	15	S	17	18	19	20	21	22	23	W	25	26	27	28	29	30	31	Calm	Total.
January	9	132	234	91	57	74	88	17	6	26	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	12	..	744
February	5	5	14	13	48	21	54	120	60	126	150	18	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	5	29	672
March .	..	..	..	..	..	..	..	16	3	55	156	186	171	87	10	8	12	13	14	6	..	1	..	..	..	..	..	..	..	..	..	..	6	744
April .	..	..	..	..	..	4	9	12	16	13	18	91	119	264	43	32	25	40	12	7	2	5	2	..	..	..	..	..	..	..	..	..	8	720
May .	..	..	3	1	1	..	..	2	8	8	22	36	122	154	63	69	48	66	36	14	11	19	10	13	13	7	..	3	3	10	2	..	..	744
June .	..	2	..	8	..	..	1	5	13	9	14	10	38	80	67	59	23	33	38	23	36	28	63	56	37	25	33	6	5	1	2	..	5	720
July .	1	..	..	..	1	..	2	..	10	..	4	17	7	56	70	49	35	43	42	52	31	68	86	61	38	36	13	13	4	..	..	3	2	744
August .	..	2	3	3	3	2	1	1	5	3	8	19	3	12	42	51	42	21	84	87	52	76	136	38	3	10	5	8	3	7	6	1	7	744
September .	..	..	..	5	6	1	2	10	28	20	29	42	47	43	39	33	11	9	37	29	27	52	68	52	22	38	17	15	20	3	3	..	11	720
October .	9	41	29	6	7	16	5	25	7	6	49	28	21	27	51	9	8	11	38	19	20	17	45	21	16	34	25	7	9	44	28	47	19	744
November .	56	121	100	82	21	56	25	19	4	29	13	21	32	28	4	2	2	2	12	3	5	..	2	2	1	6	2	1	..	..	12	45	12	720
December .	95	151	231	51	49	27	19	4	1	..	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	46	65	..	744
Annual .	175	454	614	261	193	201	204	231	161	289	467	468	562	752	389	312	206	238	313	240	184	266	412	243	130	156	95	53	45	65	104	178	99	8760

TABLE VII.

Madras Observatory :—Number of miles of wind from each point in 1931.

Month.	N	1	2	3	4	5	6	7	E	9	10	11	12	13	14	15	S	17	18	19	20	21	22	23	W	25	26	27	28	29	30	31	TOTAL
January . .	84	642	1,603	822	411	400	439	137	38	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	28	82	4,763
February .	32	25	77	88	192	105	219	468	321	551	622	149	10	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	36	2,912
March .	..	..	..	..	..	..	..	42	18	203	848	1,088	1,025	659	59	59	70	92	69	34	..	6	..	..	..	..	..	..	..	..	..	..	4,277
April . .	..	..	..	..	..	23	53	80	69	93	74	790	2,338	800	148	237	410	129	60	27	14	32	15	..	..	..	..	..	..	..	..	..	5,292
May . .	..	..	25	6	4	..	..	20	58	71	186	326	1,132	1,478	512	493	326	460	292	116	84	106	66	98	70	44	..	22	19	52	30	..	6,096
June . .	..	8	..	31	..	..	9	32	73	65	103	100	387	790	577	407	160	102	261	178	248	208	548	521	365	254	265	46	20	8	13	..	5,869
July . .	5	..	..	..	6	..	10	..	36	..	29	120	83	462	514	285	234	211	210	276	232	447	559	441	266	233	64	66	16	..	..	17	4,822
August . .	..	10	13	11	5	5	7	3	18	11	50	84	30	118	355	338	299	134	629	563	393	583	1,130	270	14	61	23	25	7	30	12	7	5,233
September .	..	..	..	37	35	8	17	64	119	131	189	191	259	305	192	129	51	34	217	157	128	232	379	307	102	169	117	84	71	19	20	..	3,763
October . .	45	255	130	48	40	46	38	111	50	42	180	147	108	157	216	57	40	69	214	94	79	79	207	137	79	179	123	30	53	241	248	224	3,761
November .	332	854	975	426	96	311	107	83	32	95	50	96	108	74	28	10	12	6	26	6	8	..	10	10	6	8	5	5	..	..	67	315	4,261
December .	672	1,123	2,334	466	405	227	135	16	5	..	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	..	441	561	6,399
Annual . .	1,170	2,917	5,157	1,930	1,194	1,125	1,034	1,056	837	1,343	2,340	3,091	5,480	4,846	2,601	2,015	1,602	1,327	1,978	1,451	1,186	1,693	2,914	1,784	902	948	597	278	191	350	869	1,242	57,448

TABLE VIII.

Madras Observatory :—Number of inches of rain with winds from each point in 1931.

Month.	N	1	2	3	4	5	6	7	E	9	10	11	12	13	14	15	S	17	18	19	20	21	22	23	W	25	26	27	28	29	30	31	Calm	TOTAL
Jan. .	..	0·03	0·01	0·01	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0·05
Feb. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	-
Mar. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
April .	..	..	..	..	..	..	0·27	0·03	0·62	0·15	0·19	0·18	0·02	0·02	..	..	..	..	..	..	..	0·02	0·01	..	..	..	..	..	..	..	..	..	1·51
May .	..	..	..	..	..	..	..	..	..	0·56	..	..	..	..	0·01	..	0·09	..	..	..	..	..	..	..	0·08	..	0·13	..	..	0·90	..	..	1·77
June .	..	..	..	..	..	..	..	..	0·01	..	..	..	..	0·10	0·05	0·03	..	0·05	1·13	..	0·48	0·09	1·29	0·02	0·06	..	0·17	..	..	..	..	..	3·48
July .	..	..	..	..	..	..	..	..	..	..	..	..	0·02	0·08	0·22	..	0·17	0·60	1·90	0·66	..	0·26	0·31	0·79	0·09	0·27	0·02	0·11	..	..	..	..	5·50
Aug. .	..	0·01	..	0·02	..	..	..	..	..	..	0·06	0·14	0·06	0·12	0·14	0·22	0·47	0·25	1·33	0·37	0·51	0·11	..	..	..	0·01	0·03	..	..	0·02	0·02	..	..	3·91
Sept. .	..	..	..	0·51	0·56	..	0·11	0·23	..	..	0·03	0·03	..	1·13	..	0·30	..	0·11	0·38	1·60	0·03	0·71	0·05	..	0·04	0·04	..	2·62	..	..	0·05	..	..	8·53
Oct. .	0·35	0·39	..	0·07	0·17	0·01	..	..	..	..	0·33	..	2·20	..	..	0·44	0·33	..	2·35	..	0·02	0·19	0·05	..	0·01	0·28	1·10	0·46	0·66	1·27	0·55	0·76	0·05	12·09
Nov. .	0·61	0·02	0·16	1·48	0·11	1·22	0·25	0·15	0·02	0·82	0·26	1·10	0·27	0·66	..	..	0·23	0·01	0·22	..	0·06	..	0·46	0·69	0·31	0·23	..	0·02	..	..	1·10	0·99	0·07	11·52
Dec.	2·68	0·96	1·87	1·41	1·20	0·39	0·15	0·21	0·10	..	0·38	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0·01	..	0·61	0·20	..	10·17
Annual .	3·64	1·41	2·04	3·50	2·04	1·62	0·78	0·62	0·75	0·97	1·81	1·45	2·59	2·11	0·41	1·00	1·25	1·11	7·31	2·63	1·10	1·38	2·17	1·50	0·51	0·91	1·32	3·34	0·67	1·29	3·23	1·95	0·12	58·53

TABLE IX.

Madras Observatory :—Wind, cloud and bright sunshine in 1931.

Month.	Wind Resultant.		Cloud (0—10).					Bright Sunshine.		Remarks.
	Velocity.	Direction.	8 h.	10 h.	16 h.	20 h.	Mean.	Average per day.	Greatest number of hours per day.	
	Miles.	Points.						Hours.	Hours.	
January . .	142·3	N.E. by N.	4·5	5·1	4·4	2·8	4·2	8·1	10·4	
February . .	89·1	E.	2·7	3·7	2·6	1·5	2·7	9·9	10·8	
March . .	128·3	S. E.	1·9	2·9	1·2	0·2	1·6	10·1	11·2	
April . . .	163·6	S. S. E.	5·0	4·2	2·6	1·4	3·3	9·4	11·7	
May . . .	154·6	S. S. E.	5·4	4·3	4·3	2·4	4·1	8·2	11·1	
June . . .	107·6	S.S.W.	5·4	5·2	6·5	4·6	5·4	7·4	10·9	
July . . .	102·0	S.S.W.	8·0	7·6	8·4	7·1	7·8	4·8	10·6	
August . .	129·4	S.W. by S.	6·9	6·7	8·1	7·4	7·3	6·3	10·5	
September . .	48·5	S.S.W.	6·3	6·5	7·5	5·3	6·4	6·1	11·1	
October . .	10·0	W. N. W.	6·6	6·8	5·5	3·8	5·7	6·4	11·0	
November . .	105·5	N.E. by N	7·1	7·5	7·6	4·7	6·8	5·3	10·7	
December . .	193·8	N.N.E.	7·9	7·6	7·4	5·8	7·1	4·7	9·2	
Annual . .	36·9	S. E.	5·6	5·7	5·5	3·9	5·2	7·2	..	

TABLE X.

Mean Monthly and Annual Meteorological Results at the Madras Observatory in 1931.

Month.	Barometer.		Dry Bulb Thermometer.				Wet Bulb.	Tension of Vapour.	Relative Humidity.		Wind.			Rain.		Cloudy Sky.	Bright Sunshine
	Reduced to 32°.	Daily Range.	Mean.	Max.	Min.	Range.	Mean.	By Simpson's Tables.		Min. on Grass.	Daily Velocity.	Mean Direction.		Amount.	Days.		
	Inches.	Inches.	°	°	°	°	°	Inches.	Cents.	°	Miles.	Points.	Points.	Inches.	No.	Cents.	Hours.
January	29·990	0·105	78·4	84·2	69·0	15·3	69·9	0·645	71	64·7	154	8	N. E. by N.	0·05	2	42	250·7
February	·960	·127	77·8	86·4	68·9	17·5	71·6	·690	72	64·8	104	8	East	..	..	27	277·4
March	·924	·128	81·1	89·8	72·7	17·1	74·3	·756	71	68·6	133	12	S. E.	..	..	16	311·7
April	·826	·126	84·8	92·9	78·7	14·2	78·8	·900	76	76·5	176	13	S. E. by S.	1·51	4	33	280·8
May	·724	·121	87·6	98·2	81·5	16·7	80·0	·916	70	79·7	196	15	S. by E.	1·77	4	41	254·0
June	·679	·111	88·5	100·3	82·4	17·9	78·2	·824	62	80·3	196	19	S. W. by S.	3·48	10	54	222·8
July	·727	·116	84·6	94·4	78·6	15·8	76·8	·816	69	76·1	156	19	S. W. by S.	5·50	13	78	148·6
August	·689	·125	85·1	94·8	78·6	16·2	76·9	·809	67	75·7	169	19	S. W. by S.	3·91	21	73	194·0
September	·747	·124	83·3	92·0	77·7	14·3	77·0	·841	74	75·2	125	17	S. by W.	8·53	13	64	183·6
October	·819	·131	82·5	90·7	76·5	14·2	76·4	·827	75	73·0	122	22	W. S. W.	12·09	14	57	198·2
November	·929	·108	78·1	84·2	73·3	10·9	74·1	·790	82	69·9	139	5	N.E. by E.	11·52	19	68	159·1
December	·989	·108	76·5	82·0	73·4	9·6	72·5	·747	82	68·7	206	1	N. by E.	10·17	14	71	144·2
Annual	29·829	0·119	82·2	90·8	75·9	14·9	74·7	0·797	73	72·8	157	13	S. E. by S.	58·53	114	52	2,625·1

Extreme Monthly Meteorological Records at the Madras Observatory in 1931.

Month.	Barometer.					Dry Bulb Thermometer.				Humidity.		Grass Therm.		Wind.				Rain.	
	Highest.		Lowest.		Range.	Highest.		Lowest.		Lowest.		Lowest.		Highest.		Lowest.		Greatest Fall.	
	Inches.	Day.	Inches.	Day.	Inches.	°	Day.	°	Day.	Cents.	Day.	°	Day.	Miles.	Day.	Miles.	Day.	Inches.	Day.
January	*30·123*	27	29·893	9	0·230	85·7	26	63·7	25	51	26	58·0	25	258	5	95	27	0·03	5
February	·110	1	·862	19	·248	90·3	26	65·3	9	53	4, 5	59·2	4	184	1	75	28	..	..
March	·053	21	·785	30	·268	93·2	24	69·5	1	52	23	66·0	2, 3	177	7	79	1	..	..
April	29·972	11	·684	21	·288	98·3	6	74·2	14	43	6	73·1	11, 14	228	22	69	12	1·17	14
May	·837	29	·554	9	283	105·9	20	70·6	14	38	10, 16	70·6	14	264	23	149	13	1·67	14
June	·785	1	*·506*	7	·279	*107·9*	*9*	75·2	2	*28*	*6*	72·7	2	265	7, 10	116	30	2·37	27
July	·883	19	·573	2	·310	101·1	10	74·3	24	41	4	72·2	24	214	6	108	11	2·16	21
August	·816	11	·551	8	·265	99·1	21	75·2	10	37	21, 22	73·1	10	230	27	104	1	0·65	12
September	·885	11	·593	26	·292	99·1	2	74·7	14	43	1, 2	72·3	13	198	1	62	19	3·43	16
October	·933	28	·662	6	·271	95·4	8	72·4	27	46	14	67·2	27	251	30	64	11	*5·49*	*31*
November	30·033	28	·822	4	·211	87·4	*5*	69·2	17	56	17	63·7	17	267	29	*51*	*12*	2·06	4
December	·087	30	·822	4	·265	84·8	17, 18	*63·5*	*29*	56	28	*56·8*	*29*	*329*	*23*	83	30	2·41	23

The extreme value in each column is shown in italics.

TABLE XI.

Monthly and Annual means of Meteorological Observations made at the Madras Observatory at 20 hrs. in 1931.

Month.	Barometer reduced to 32°F.	Dry Bulb.	Wet Bulb.	Vapour Tension.	Humidity.	Cloud.	Wind Direction.
January	30·006	75·4	69·7	0·650	74	2·8	N.E. by N.
February	29·959	77·0	71·9	·712	77	1·5	E. by N.
March	·925	80·2	74·7	·785	76	0·2	S.E. by E.
April	·824	83·7	79·6	·952	83	1·4	S.E.
May	·724	85·6	81·5	1·018	83	2·4	S.E. by S.
June	·682	85·6	80·4	0·965	79	4·6	S.E. by S.
July	·722	83·2	78·1	·889	78	7·1	S. by W.
August	·682	83·0	77·7	·877	78	7·4	S.W. by S.
September . . .	·755	82·0	78·1	·910	84	5·3	S. by E.
October	·829	81·5	77·4	·884	83	3·8	E. by S.
November . . .	·950	77·1	73·9	·795	85	4·7	N.E.
December . . .	·958	75·9	72·7	·762	86	5·8	N. by E.
Annual	29·835	80·9	76·3	0·850	80	3·9	E.S.E.

TABLE XII.

Mean hourly wind velocity recorded by the Dine's Pressure Tube Anemometer at the Madras Harbour for the year 1931.

Month.	M.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total.
January	7	7	7	6	6	6	5	6	6	8	8	9	9	9	9	9	10	10	9	9	9	9	9	7	189
February	5	5	4	3	3	3	3	3	4	5	5	6	6	7	7	7	7	7	6	6	5	5	5	5	122
March	7	6	5	3	3	3	3	3	3	4	5	6	7	8	8	8	7	7	7	8	8	8	8	7	142
April	7	6	5	4	4	4	5	6	7	8	9	10	11	11	11	10	10	10	10	9	9	9	9	8	192
May	10	9	8	7	6	6	6	7	9	9	9	9	10	11	10	11	10	10	10	10	11	11	11	11	221
June	7	7	7	6	6	6	7	8	9	10	10	9	9	9	10	10	9	10	9	10	10	12	11	9	210
July	9	8	7	7	6	6	6	6	8	8	9	9	9	8	8	9	9	9	9	10	9	9	10	10	198
August	7	8	7	7	6	6	5	7	9	10	11	11	11	11	10	10	9	8	8	8	9	9	8	7	202
September	7	7	7	6	6	6	6	7	8	7	7	7	7	7	7	6	7	6	6	6	7	7	7	7	161
October	7	6	6	5	5	5	6	5	6	6	6	7	8	8	8	8	8	7	7	7	7	7	6	8	159
November	9	8	8	8	7	7	7	7	8	9	9	9	10	10	10	15	10	10	11	10	10	10	9	9	215
December	13	13	13	14	13	13	13	13	14	14	14	14	14	15	15	15	15	14	14	15	15	14	14	14	335
Annual	8	8	7	6	6	6	6	6	8	8	9	9	9	10	9	9	9	9	9	9	9	9	9	9	196

TABLE XIII.

Monthly mean values of meteorological elements derived from hourly tabulations of autographic records at the Bombay Observatory in the year 1931.

Month.	Barometric pressure* reduced to 32°F.	Air temperature.	Relative Humidity.	Vapour pressure (in inches of mercury).
	In.	°F	%	In.
January	29·942	76·2	66	·597
February	·924	75·8	65	·574
March	·909	78·2	70	·673
April	·815	84·1	73	·848
May	·782	85·9	71	·877
June	·696	85·5	76	·931
July	·660	81·1	87	·924
August	·643	80·8	86	·904
September	·772	81·1	81	·856
October	·817	80·0	83	·849
November	·909	80·1	73	·752
December	·932	76·4	69	·630
YEAR	·817	80·4	75	·785

* Reduced to Calcutta H standard.

TABLE XIV.

Monthly means of Meteorological elements at Trivandrum for 1931.

Month.	Newman's barometer reduced to 32° F. 20 hrs.	Dry Bulb Thermometer. 20 hrs.	Wet Bulb Thermometer. 20 hrs.	Vapour pressure. 20 hrs.	Humidity. 20 hrs.	Cloud. 20 hrs.	Hrs. of bright sunshine.	Maximum in sun.	Maximum in shade.	Minimum in shade.	Average velocity.	Frequency of wind directions at 20 hrs. C.	NNE.	NE.	ENE.	E.	ESE.	SE.	SSE.	S.	SSW.	SW.	WSW.	W.	WNW.	NW.	NNW.	N.	Total.
January	29·738	80·7	75·2	·749	76	3·0	7·9	133·8	84·5	75·2	113·8	14	0	0	0	1	0	0	0	0	0	10	0	3	1	2	0	0	31
February	·724	82·5	75·7	·761	72	3·0	10·5	143·1	86·8	74·9	159·1	7	0	0	0	0	0	0	0	0	0	2	1	13	0	5	0	0	28
March	·731	84·6	77·7	·872	74	3·0	10·2	143·7	89·5	78·5	158·8	13	0	1	0	1	0	1	0	0	0	6	1	3	0	4	0	1	31
April	·780	83·1	78·8	·925	82	6·2	7·8	141·2	87·1	79·5	164·5	13	0	2	0	1	0	0	0	0	0	0	0	7	2	5	0	0	30
May	·653	83·8	78·9	·923	80	5·3	7·4	135·6	87·6	80·5	226·8	3	0	0	0	1	0	0	0	0	0	2	1	10	2	10	0	2	31
June	·669	79·7	76·8	·881	87	7·9	4·1	129·5	83·0	76·7	208·9	4	0	0	0	0	0	0	0	0	0	0	0	11	3	7	0	5	30
July	·691	78·7	75·8	·850	87	7·2	5·6	136·9	82·1	75·1	212·2	2	0	0	0	0	0	0	0	0	0	0	0	9	5	10	2	3	31
August	·692	77·2	75·1	·838	89	9·0	3·5	120·3	80·6	74·5	222·6	3	0	0	0	0	0	0	0	0	0	0	1	11	4	8	3	1	31
September	·690	78·2	75·2	·848	87	5·1	6·5	..	82·1	75·1	235·6	1	0	1	0	0	0	0	0	0	0	0	0	5	3	14	4	2	30
October	·706	79·8	76·1	·851	84	4·6	8·3	..	85·1	75·9	194·2	9	0	0	0	1	0	1	0	0	0	0	0	5	4	10	1	0	31
November	·724	79·4	75·8	·842	81	6·4	5·9	..	84·8	74·4	108·6	19	0	5	0	0	1	1	0	0	0	1	0	1	0	1	0	1	30
December	·711	79·5	76·4	·853	85	6·3	6·2	..	83·9	74·6	107·3	18	0	2	0	0	0	1	0	2	0	3	0	2	0	2	0	1	31

MGIPC—S2—VIII-3-25—23-11-32—290.

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INDIA WEATHER REVIEW

ANNUAL SUMMARY FOR 1931

PART E.

SEISMIC RECORDS.

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UNDER THE DIRECTION OF

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Director General of Observatories

CALCUTTA: GOVERNMENT OF INDIA
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1932

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ADDENDUM TO ANNUAL SUMMARY FOR 1929, PART E.

At the end of the Seismic data for Agra, on page E 21, *add* the following note :—

NOTE.—Owing to uncertainty in the time given by the standard of reference at our disposal during the year, the absolute values of the time of occurrence of the various phases cannot be regarded as quite accurate, the time intervals between the different phases of any shock being however correct to within a few seconds. But it is estimated that the correction to the recorded time is of the order of $\pm$ 1 to $\pm 1\frac{1}{2}$ minutes.

ADDENDA TO ANNUAL SUMMARY FOR 1930, PART E.

On page E 3, date July 3rd, against *AN*, phase *M*, *add* the following remark :—

"The data for *M* are uncertain and should be deleted."

At the end of the seismic data for Agra, on page E 6, *add* the following note :—

NOTE.—Owing to uncertainty in the time given by the standard of reference at our disposal during the year, the absolute values of the time of occurrence of the various phases cannot be regarded as quite accurate *the time* intervals between the different phases of any shock being however correct to *within a few seconds*. But it is estimated that the correction to the recorded time is of the order of $\pm$ 1 to $\pm$ 2 minutes except during *14th May to 4th* June and 8th to 10th November and on 25th December 1930 when the corrections are of the order of + 2 to + 4 minutes and during 8th October to 4th November 1930 when they are of the order of —2 to —$2\frac{1}{2}$ minutes.

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PART E.

SEISMIC RECORDS.

STATION—AGRA.

φ=27° 8′ 15″ N ; λ=78° 0′ 45″ E ; h=163 metres. *Subsoil*—Indo-Gangetic Alluvium.

Apparatus.—1st January 1931 to 20th July 1931—Two Omori-Ewing Horizontal Pendulum Seismographs giving AN & AE.
21st July 1931 to 31st December 1931—Only one Omori-Ewing Horizontal Pendulum Seismograph giving AN.

(*Masses 50 kg.*)

TABLE E 1.

	V	To	ϵ	$\frac{r}{To^2}$	
AN	26·9	21	1		From 1st January, 1931 to 2nd May, 1931.
	28·0	28·9	1		From 3rd May, 1931 to 18th June, 1931.
	28·0	29·4	1		From 19th June, 1931 to 31st December, 1931.
AE	30·0	30·0	1		

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	AE.	Remarks.
1931.		H. M. S.				
Jan. 1st	AE. eP	23 57 48	..	..	..	Slight shock.
,, 2nd	M	0 17 46	..	..	..	
	F	0 33 58	..	..	..	
,, 1st	AN. e	23 59 9	..	..	..	Do.
,, 2nd	eS	0 2 47	..	..	..	
	M	0 17 3	15	22	..	
	F	1 34 48	..	..	..	
,, 2nd	AE. eP	10 10 44	..	..	..	Do.
	F	11 18 47	..	..	..	
,, 2nd	AN. P	10 10 37	..	..	..	Do.
	F	12 5 13	..	..	..	
,, 4th	AE. eP	4 50 59	..	..	..	Do.
	F	5 4 54	..	..	..	
,, 4th	AN. eP	4 50 37	..	..	..	Do.
	eS	4 53 25	..	..	..	
	F	5 4 43	..	..	..	
,, 7th	AE. P	2 5 4	..	..	..	Do.
	S	2 7 37	..	..	..	
	F	2 20 57	..	..	..	
1931.		H. M. S.				
Jan. 12th	AE. P	20 43 37	..	..	..	Slight shock.
	S	20 52 17	..	..	..	
	Fe	21 21 53	..	..	..	
,, 12th	AN. S	20 52 20	..	..	..	Do.
	Fe	21 34 11	..	..	..	
,, 15th	AE. P	2 8 57	..	..	..	Shock of very great intensity.
	M	?	?	..	>1267	Motion of recording pen restricted due to side-stops for about 2 minutes.
	F	4 18 16	..	..	..	
,, 15th	AE. e	21 7 30	..	..	..	Slight shock.
	F	21 47 27	..	..	..	
,, 15th	AN. iL	21 22 56	..	..	..	Do.
	F	21 49 26	..	..	..	
,, 16th	AE. e	22 51 45	..	..	..	Do.
	Fe	23 32 51	..	..	..	
1931.		H. M. S.				
Jan. 15th	AN. P	23 1 1	..	..	..	Slight shock.
	F	23 58 23	..	..	..	
,, 16th	AN. e	19 40 21	..	..	..	Distant slight shock.
	F	21 40 23	..	..	..	
,, 18th	AE. eP	13 15 12	..	..	..	
	Fe	13 42 47	..	..	..	
,, 18th	AN. P	13 16 40	..	..	..	
	F	13 45 31	..	..	..	
,, 19th	AN. e	12 40 47	..	..	..	Slight shock.
	F	13 19 6	..	..	..	
,, 20th	AE. Pi	9 28 43	..	..	..	Do.
	S	9 30 39	..	..	..	
	Le	9 31 35	..	..	..	
	F	Not determinable.				
,, 20th	AN. iP	9 28 46	..	..	..	Do.
	S	9 30 44	..	..	..	
	L	9 31 24	..	..	..	
	eF	9 54 51	..	..	..	
,, 20th	AE. e	15 31 39	..	..	..	Do

TABLE E 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	Amplitude (μ) AE.	Remarks.
1931.		H. M. S.				
Jan. 20th	AN. e	15 35 0	..	..	..	Slight shock.
	F	15 55 8	..	..	..	
	AE. e	13 53 3	..	..	..	Do.
	eF	14 14 27	..	..	..	
„ 24th	AN. e	13 53 19	..	..	..	Do.
	F	14 33 53	..	..	..	
	AE. P	20 11 51	..	..	..	Shock of very great intensity. Epicentre in Burma near Kamaing.
	S	20 15 1	..	..	..	
	L	20 16 56	..	..	..	
	M	?	?	..	>1505	Motion of recording pen restricted due to side-stops at intervals for about 7 minutes.
	Fe	22 21 46	..	..	..	
„ 27th	AN. P	20 11 51	..	..	..	Shock of very great intensity. Epicentre in Burma near Kamaing.
	S	20 14 31	..	..	..	
	L	20 16 46	..	..	..	
	M	?	?	>1444	..	Motion of recording pen restricted due to side stops at intervals for about 8 minutes.
	Fe	23 56 12	..	..	..	
„ 28th	AE. Pl	21 33 26	..	..	..	Moderate shock.
	S	21 42 5	..	..	..	
	L	21 55 6	..	..	..	
	eF	23 5 52	..	..	..	
„ 28th	AN. eP	21 32 48	..	..	..	Do.
	Si	21 41 55	..	..	..	
	L	21 54 55	..	..	..	
	M	21 56 31	22	74	..	
	F	23 5 24	..	..	..	
Feb. 2nd	AE. eP	23 4 37	..	..	..	New Zealand shock of great intensity.
	S	23 14 30	..	..	..	
	Le	23 33 11	..	..	..	
	M	23 52 57	23	..	533	
	F	Lost in changing drum.				
Feb. 2nd	AN. eP	23 4 36	..	..	..	New Zealand shock of great intensity.
	S	23 14 11	..	..	..	
	L	23 31 48	..	..	..	
	M	23 52 9	20	814	..	
	F	Lost in changing drum.				
„ 7th	AE. e	15 4 15	..	..	..	Slight shock.
	eS	15 6 21	..	..	..	
	Fe	15 18 59	..	..	..	
„ 7th	AN. e	15 4 2	..	..	..	Do.
	S	15 6 25	..	..	..	
	Le	15 7 22	..	..	..	
	F	15 13 22	..	..	..	
„ 10th	AE. P	1 25 38	..	..	..	Slight shock felt at Kamaing in Burma.
	S	1 28 58	..	..	..	
	L	1 30 48	..	..	..	
	Fe	1 53 28	..	..	..	
„ 10th	AN. e	1 26 9	..	..	..	Do.
	S	1 28 49	..	..	..	
	L	1 30 18	..	..	..	
	M	1 31 43	17	140	..	
	F	2 8 30	..	..	..	
„ 10th	AE. P	6 41 1	..	..	..	Shock of great intensity. Epicentre apparently at Lat. 7° S. Long. 93° E.
	S	6 47 6	..	..	..	
	L	6 54 51	26	..	67	
	M	6 56 15	28	..	267	
	Fe	8 40 11	..	..	..	
„ 10th	AN. P	6 41 1	..	..	..	Do.
	Si	6 47 6	..	..	..	
	L	6 53 16	..	..	..	
	M	7 0 41	23	184	..	
	F	9 52 57	..	..	..	
„ 11th	AE. e	19 51 0	..	..	..	Slight shock.
	eS	19 54 9	..	..	..	
	Fe	20 14 0	..	..	..	
„ 11th	AN. e	19 50 54	..	..	..	Do.
	Se	19 54 7	..	..	..	
	Le	19 55 45	..	..	..	
	Fe	20 16 51	..	..	..	
Feb. 12th	AE. P	5 51 30	..	..	..	Slight shock.
	S	5 57 42	..	..	..	
	Le	6 4 28	..	..	..	
	eF	6 40 3	..	..	..	
„ 12th	AN. P	5 51 23	..	..	..	Do.
	S	5 57 23	..	..	..	
	eL	6 3 1	..	..	..	
	Fe	7 26 0	..	..	..	
„ 13th	AE. eP	1 45 57	..	..	..	Shock of great intensity.
	S	1 56 13	..	..	..	
	M	2 38 31	19	..	85	
	eF	4 4 33	..	..	..	
„ 13th	AN. eP	1 45 11	..	..	..	Do.
	S	1 56 11	..	..	..	
	M	2 36 20	19	128	..	
	Fe	4 32 12	..	..	..	
„ 13th	AE. e	22 22 6	..	..	..	Slight shock.
	Fe	22 47 57	..	..	..	
„ 13th	AN. e	22 22 14	..	..	..	Do.
	Fe	22 45 8	..	..	..	
„ 14th	AE. eP	14 5 53	..	..	..	Moderate shock. Epicentre apparently at Lat. 7° S. Long. 93° E.
	S	14 12 13	..	..	..	
	Le	14 18 44	..	..	..	
	M	14 20 44	24	..	68	
	Fe	15 8 11	..	..	..	
„ 14th	AN. eP	14 5 38	..	..	..	Do.
	S	14 11 56	..	..	..	
	eL	14 17 38	..	..	..	
	F	15 17 44	..	..	..	
„ 16th	AE. e	18 57 22	..	..	..	Slight shock.
	S	19 5 23	..	..	..	
	eL	19 18 8	..	..	..	
	F	19 48 26	..	..	..	
„ 16th	AN. e	18 57 22	..	..	..	Do.
	S	19 5 23	..	..	..	
	Fe	19 40 9	..	..	..	

TABLE E 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Feb. 19th	AE. P	17 45 34	..	..	..	Slight shock.
	Se	17 51 48	..	..	..	
	L	17 58 39	..	..	..	
	F	19 12 57	..	..	..	
	AN. P	17 45 28	..	..	..	
„ 19th	Si	17 51 41	..	..	..	Do.
	L	17 58 28	..	..	..	
	F	19 17 57	..	..	..	
	AE. F	5 39 7	..	..	..	
„ 20th	iS	5 45 40	..	..	..	Moderate shock.
	L	5 53 21	..	..	..	
	Fe	6 37 14	..	..	..	
	AN. P	5 39 9	..	..	..	
„ 20th	iS	5 45 41	15	165	..	Do.
	Le	5 53 21	..	..	..	
	F	6 37 22	..	..	..	
	AE. Pe	9 45 54	..	..	..	
„ 27th	S	9 53 18	..	..	..	Do.
	eL	10 3 26	..	..	..	
	Fe	10 27 21	..	..	..	
	AN. e	9 46 0	..	..	..	
„ 27th	S	9 53 17	..	..	..	Do.
	Le	10 3 40	..	..	..	
	Fe	10 19 45	..	..	..	
	AE. e	18 0 42	..	..	..	
Mar. 5th	eF	19 2 17	..	..	..	Slight shock.
	AN. e	18 0 37	..	..	..	
„ 5th	Fe	19 8 53	..	..	..	Do.
	AE. P	1 58 28	..	..	..	
„ 8th	S	2 5 3	..	..	..	Moderate shock.
	Le	2 13 10	..	..	..	
	F	Not determinable.				
	AN. Pi	1 58 22	..	..	..	
„ 8th	Si	2 5 7	..	..	..	Do.
	Le	2 14 24	..	..	..	
	M	2 17 41	20	115	..	
	F	3 22 24	..	..	..	
1931.		H. M. S.				
Mar. 9th	AE. P	3 57 49	..	..	..	
	S	4 5 32	..	..	..	
	L	4 17 2	33	..	200	
	M	4 22 23	>18	..	>1457	
	F	Lost in changing drum.				
„ 9th	AN. P	3 57 54	..	..	..	
	iS	4 5 32	..	..	..	
	L	4 16 16	..	..	..	
	M	4 22 25	>19	>1710	..	
	F	Lost in changing drum.				
„ 11th	AE. e	6 16 9	..	..	..	
	Fe	6 57 11	..	..	..	
„ 11th	AN. e	6 16 24	..	..	..	
	Fe	6 52 40	..	..	..	
„ 11th	AE. P	12 35 45	..	..	..	
	Fe	14 12 15	..	..	..	
„ 11th	AN. e	12 35 56	..	..	..	
	Se	12 43 47	..	..	..	
	eL	12 55 24	..	..	..	
	Fe	14 17 41	..	..	..	
„ 15th	AE. e	15 17 9	..	..	..	
	Fe	15 36 44	..	..	..	
„ 15th	AN. e	15 18 27	..	..	..	
	F	15 44 43	..	..	..	
„ 18th	AE. e	8 23 5	..	..	..	
	S	8 36 51	..	..	..	
	Le	9 17 21	..	..	..	
	eF	10 45 15	..	..	..	
„ 18th	AN. e	8 23 8	..	..	..	
	eS	8 37 4	..	..	..	
	eL	9 16 16	..	..	..	
	M	9 37 5	18	52	..	
	Fe	11 7 18	..	..	..	
1931.		H. M. S.				
Mar. 18th	AE. P	20 23 23	..	..	..	Moderate shock.
	S	20 30 32	..	..	..	
	eL	20 40 24	..	..	..	
	Fe	22 26 46	..	..	..	
„ 18th	AN. Pe	20 23 19	..	..	..	Do.
	iS	20 30 32	..	..	..	
	L	20 40 32	..	..	..	
	F	22 44 31	..	..	..	
„ 19th	AE. Pi	6 33 17	..	..	..	Moderate shock. Epicentre apparently near Lat. 13°N Long. 118°E.
	Se	6 39 17	..	..	..	
	L	6 45 27	..	..	..	
	Fe	8 37 49	..	..	..	
„ 19th	AN. eP	6 33 17	..	..	..	Do.
	S	6 39 19	..	..	..	
	M	6 51 10	18	87	..	
	Fe	8 1 54	..	..	..	
„ 28th	AE. Pi	12 48 4	..	..	..	Moderate shock.
	Si	12 52 54	..	..	..	
	L	12 56 52	..	..	..	
	Fe	14 14 45	..	..	..	
„ 28th	AN. P	12 48 5	..	..	..	Do.
	S	12 52 54	..	..	..	
	L	12 56 51	..	..	..	
	F	14 59 39	..	..	..	
Apr. 6th	AE. e	7 1 53	..	..	..	Slight shock.
	S	7 11 58	..	..	..	
„ 6th	AN. e	7 1 55	..	..	..	Do.
	S	7 12 0	..	..	..	
	Le	7 30 42	..	..	..	
	F	8 38 11	..	..	..	
„ 27th	AE. P	16 55 55	..	..	..	Moderate shock.
	Se	17 1 11	..	..	..	
	Le	17 5 5	..	..	..	
	M	17 11 35	20	..	67	
	F	17 46 41	..	..	..	
„ 27th	AN	Instrument taken off for overhauling.				

TABLE E 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN. AE.	Remarks.
1931.		H. M. S.			
May 7th	AE. e	0 54 46	..	.. ..	Tremors.
	F	1 3 7	..	.. ..	
	AN. e	0 54 48	..	.. ..	Do.
	F	1 4 26	..	.. ..	
,, 12th	AE. eP	1 55 10	..	.. ..	
	F	2 20 47	..	.. ..	
,, 12th	AN. eP	1 54 47	..	.. ..	Do.
	F	2 23 38	..	.. ..	
,, 12th	AN. P	10 38 4	..	.. ..	Do.
	eF	10 52 33	..	.. ..	
,, 20th	AE. eP	2 33 36	..	.. ..	Moderate shock.
	Si	2 43 26	..	.. ..	
	Li	3 2 37	..	.. ,,	
	M	3 13 0	17	.. 60	
	F	4 7 36	..	.. ..	
,, 20th	AN	Pen had jumped off the drum.			
,, 20th	AN. e	5 14 30	..	.. ..	Slight shock.
	F	5 30 43	..	.. ..	
,, 27th	AE. F	1 0 20	..	.. ..	Tremors.
,, 27th	AN. e	0 50 31	..	.. ..	Do.
	F	1 0 44	..	.. ..	
June 2nd	AE. e	12 2 54	..	.. ..	Do.
	F	12 8 49	..	.. ..	
,, 2nd	AN. e	12 3 21	..	.. ..	Do.
	F	12 9 58	..	.. ..	
,, 2nd	AE. e	17 40 29	..	.. ..	Do.
	F	17 53 36	..	.. ..	
,, 2nd	AN. e	17 39 7	..	.. ..	Do.
	F	17 53 52	..	.. ..	
18th	AE. P	12 57 43	..	.. ..	Moderate shock.
	S	12 59 10	..	.. ..	
	L	12 59 47	..	.. ..	
	M	13 0 45	15	.. 133	
	F	13 23 10	..	.. ..	
1931.		H. M. S.			
June 18th	AN. P	12 57 50	..	.. ..	Moderate shock.
	S	12 59 2	..	.. ..	
	L	12 59 43	..	.. ..	
	M	13 0 38	13	107 ..	
	F	13 25 21	..	.. ..	
,, 18th	AE. e	13 45 27	..	.. ..	
	F	13 54 28	..	.. ..	
,, 18th	AN. e	13 46 49	..	.. ..	
	eF	13 51 50	..	.. ..	
July 15th	AE. F	17 24 24	..	.. ..	Slight shock.
,, 15th	AN. eP	16 50 10	..	.. ..	Do.
	L	16 55 16	..	.. ..	
	M	16 57 29	24	.. ..	
	F	17 26 58	..	.. ..	
,, 18th	AN. e	11 57 24	..	.. ..	Tremors.
	Fe	12 44 54	..	.. ..	
		Instrument giving AE disarmed on 21st July 1931.			
,, 29th	AN. P	17 16 42	..	.. ..	Slight shock.
	F	17 35 38	..	.. ..	
Aug. 2nd	AN. eP	18 7 4	..	.. ..	Do.
,, 2nd	AN. Pe	18 20 14	..	.. ..	Do.
	Se	18 21 38	..	.. ..	
	Le	18 22 51	..	.. ..	
	F	18 41 25	..	.. ..	
,, 8th	AN. P	4 11 54	..	.. ..	Do.
	S	4 16 5	..	.. ..	
	Fe	4 40 26	..	.. ..	
,, 8th	AN. e	9 3 53	..	.. ..	Tremors.
	Fe	9 16 6	..	.. ..	
,, 10th	AN. e	10 22 44	..	.. ..	Feeble shock. Felt in Pyinamana, Burma.
	F	10 54 55	..	.. ..	
,, 10th	AN. iP	21 23 23	..	.. ..	Shock of very great intensity.
	eS	21 27 46	..	.. ..	
	M	?	?	>1327 ..	Motion of recording pen restricted due to side-stops at intervals for about 30 minutes.
	F	Lost in changing drum.			
1931.		H. M. S.			
Aug. 15th	AN. Pi	4 2 46	..	.. ..	Slight shock.
	S	4 4 37	..	.. ..	
	F	4 51 29	..	.. ..	
,, 18th	AN. iP	14 24 40	..	.. ..	Shock of great intensity. *E* picentre near Lat. 50°N Long. 80° E.
	iS	14 28 43	..	.. ..	
	L	14 31 38	..	.. ..	
	M	14 34 32	12	942 ..	
	F	16 12 51	..	.. ..	
,, 18th	AN. e	18 2 40	..	.. ..	Tremors.
	F	18 21 47	..	.. ..	
,, 24th	AN. P	21 37 3	..	.. ..	Shock of very great intensity. *E* picentre apparently in North Himalayas.
	Si	21 38 45	..	.. ..	
	iL	21 39 44	..	.. ..	
	M	?	?	>1446 ..	Motion of recording pen restricted due to side-stops for about 2 minutes.
	F	23 30 5	..	.. ..	
,, 24th	AN. P	23 33 26	..	.. ..	Slight shock.
	S	23 34 47	..	.. ..	
	L	23 35 23	..	.. ..	
,, 25th	F	0 0 7	..	.. ..	
,, 25th	AN. P	0 34 30	..	.. ..	Do.
	S, L	Not determinable. Record partly rubbed off.			
	Fe	1 7 16	..	.. ..	
,, 25th	AN. eP	3 8 16	..	.. ..	Do.
	S	3 9 41	..	.. ..	
	Fe	3 43 16	..	.. ..	
,, 26th	AN. Pi	19 32 37	..	.. ..	
	F	19 48 43	..	.. ..	

TABLE E 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Aug. 27th	AN. P	15 20 2	..	..	..	Severe shock. Origin apparently in Baluchistan.
	S	15 30 50	..	..	..	
	L	15 31 50	..	..	..	
	M	?	?	>1321	..	Motion of recording pen restricted due to side-stops almost continuously from about 15h 33m to 15h 39m and again from 15h 41m to 15h 46m.
	F	Mixed up with the following shock.				
,, 27th	AN. eP	18 2 13	..	..	..	After-shock of slight intensity.
	eS	18 4 5	..	..	..	
	F	18 40 13	..	..	..	
,, 27th	AN. P	18 48 24	..	..	..	Do.
	S	18 49 52	..	..	..	
	F	19 7 18	..	..	..	
,, 27th	AN. e	20 5 37	..	..	..	Do.
	S	20 7 9	..	..	..	
	L	20 8 9	..	..	..	
	F	20 31 39	..	..	..	
,, 28th	AN. e	0 44 23	..	..	..	After-shock of moderate intensity. Phases e and s disturbed due to observer's presence in Seismograph room
	S	0 46 7	..	..	..	
	L	0 46 43	..	..	..	
	M	0 49 11	..	36	..	
	F	1 11 27	..	..	..	
,, 28th	AN. e	3 21 26	..	..	..	After-shock of slight intensity.
	eS	3 22 43	..	..	..	
	F	3 25 38	..	..	..	
,, 28th	AN. P	10 15 12	..	..	..	Do.
	eS	10 16 40	..	..	..	
	F	10 34 13	..	..	..	
1931.		H. M. S.				
Aug. 28th	AN. e	19 42 15	..	..	..	After-shock of slight intensity.
	S	19 43 45	..	..	..	
	L	19 44 49	..	..	..	
	F	20 9 44	..	..	..	
,, 28th	AN. P	21 27 44	..	..	..	Do.
	S	21 29 34	..	..	..	
	L	21 30 40	..	..	..	
	F	21 39 52	..	..	..	
Sept. 6th	AN. e	5 45 45	..	..	..	Tremors.
	Fe	6 2 52	..	..	..	
,, 6th	AN. eP	14 35 17	..	..	..	Slight shock.
	S	14 36 46	..	..	..	
	eL	14 37 23	..	..	..	
	Fe	14 57 7	..	..	..	
,, 8th	AN. eP	16 15 32	..	..	..	Slight shock. Epicentre probably in the neighbourhood of Baluchistan.
	S	16 16 53	..	..	..	
	L	16 17 35	..	..	..	
	Fe	16 30 44	..	..	..	
,, 8th	AN. e	19 18 29	..	..	..	Tremors.
	Fe	19 57 26	..	..	..	
,, 9th	AN. e	20 48 17	..	..	..	Moderate shock.
	Si	20 56 17	..	..	..	
	eL	21 8 46	..	..	..	
	F	22 1 5	..	..	..	
,, 20th	AN. e	15 28 59	..	..	..	
	Fe	15 43 32	..	..	..	
,, 21st	AN. e	2 29 59	..	..	..	Moderate shock. Reported to be felt in Japan.
	M	2 47 50	25	141	..	
	F	3 47 30	..	..	..	
Sept. 21st	AN. P	Not determinable.				Moderate shock.
	S(?)	10 38 38	..	..	..	Record disturbed due to mechanical work inside the Seismograph room.
	L	10 44 9	..	..	..	
	M	10 46 57	19	214	..	
	F	Not determinable.				
,, 25th	AN. e	4 31 42	..	..	..	
	F	4 46 54	..	..	..	
,, 25th	AN. P	6 6 41	..	..	..	Shock of very great intensity. Epicentre apparently in the neighbourhood of Sumatra Island.
	S	6 11 52	..	..	..	
	iL	6 15 53	..	..	..	
	M	6 28 46	18	>1200	..	Motion of recording pen restricted due to side-stop on one side at intervals for about 8 minutes.
	F	9 49 16	..	..	..	
,, 30th	AN. P	11 17 23	..	..	..	Slight shock. Epicentre apparently in Kumaon hills.
	Si	11 18 34	..	..	..	
	Le	11 19 3	..	..	..	
	F	11 52 40	..	..	..	
,, 30th	AN. e	12 58 44	..	..	..	Feeble shock. Epicentre apparently in Kumaon hills.
	Fe	13 12 55	..	..	..	
Oct. 3rd	AN. eP	19 26 29	..	..	..	Shock of great intensity.
	Se	19 36 41	..	..	..	
,, 4th	F	1 54 44	..	..	..	
Do.	AN. e	11 26 22	..	..	..	Slight shock.
	eS	11 29 23	..	..	..	
	L	11 30 57	..	..	..	
	F	11 44 41	..	..	..	

TABLE E-1—*concld.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	AE.	Remarks.
1931.		H. M. S.				
Oct. 5th	AN. P	22 33 52	..	..	..	Moderate shock. Epicentre apparently in Hindu-kush mountains.
	S	22 35 52	..	..	..	
	eL	22 36 27	..	..	..	
	Fe	23 11 45	..	..	..	
„ 9th	AN. e	6 10 20	..	..	..	Feeble shock.
	F	6 38 50	..	..	..	
„ 10th	AN. eP	0 32 29	..	..	..	Shock of great intensity.
	S	Lost in changing drum.				
	eL	1 0 24	..	..	..	
	M	1 9 30	26	423	..	
	Fe	5 25 15	..	..	..	
1931.		H. M. S.				
Oct. 10th	AN. Pe	16 54 23	..	..	..	
	Fe	17 47 15	..	..	..	
Nov. 2nd	AN. P	10 10 53	..	..	..	Shock of great intensity. Epicentre in sea south of Japan. Record disturbed due to mechanical work inside the Seismograph room.
	Si	10 17 48	..	..	..	
	L	10 26 36	..	..	..	
	M	Not determinable.				
	F	Lost in changing drum.				
1931.		H. M. S.				
Nov. 5th	AN. iP	12 24 3	..	..	..	Moderate shock.
	iS	12 28 4	..	..	..	
	eL	12 30 24	..	..	..	
	M	12 33 55	20	182	..	
	F	13 18 25	..	..	..	
„ 13th	AN. e	1 13 22	..	..	..	Slight shock.
	Fe	1 23 57	..	..	..	
„ 20th	AN. e	14 39 18	..	..	..	Slight shock.
	F	15 51 35	..	..	..	

NOTE :—Owing to uncertainty in the time given by the standard of reference at our disposal during the year, the absolute values of the time of occurrence of the various phases cannot be regarded as quite accurate, the time intervals between the different phases of any shock being however correct to within a few seconds. But it is estimated that the correction to the recorded time is of the order of ± 1 to ± 1½ minutes.

G. CHATTERJEE,
Meteorologist-in-charge,
Upper Air Observatory, Agra.

STATION—BOMBAY (COLABA).

φ=18° 53′ 36″ N ; λ=72° 48′ 54″ E ; h=6 m. *Subsoil*—Trap rock.

Apparatus.—(1) Milne-Shaw seismograph (N-S). *Damping ratio* 20 : 1.

(2) Milne-Shaw seismograph (E-W). *Damping ratio* 22 : 1, (in the underground constant temperature room).

TABLE E 2.

	V	To	G	$\frac{1}{To^2}$
AN.	250	12	2·6	..
AE	350	12	2·6	..

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude. (μ) AN. AE.	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude. (μ) AN. AE.	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude. (μ) AN. AE.	Remarks.
1931.		H. M. S.				1931.		H. M. S.				1931.		H. M. S.			
Jan. 2nd	AN P	0 0 57	..	.. ..		Jan. 4th	AN Pe	23 38 57	..	.. ..	Very feeble shock.	Jan. 12th	AE e	15 44 0	..	.. ..	Tremors.
	S	0 7 42	..	.. ..		,, 5th	F	0 20 0	..	.. ..			f	15 44 0	..	.. ..	
	L	0 15 57	..	.. ..			AE					,, ,,	AN				
	M	0 19 57	18	12 ..		,, 4th	Pe	23 33 57	..	.. ..	Do.		P	20 45 50	..	.. ..	
	F	1 20 0	..	.. ..		,, 5th	F	0 23 0	..	.. ..			S	20 55 35	..	.. ..	
							AN						L	21 13 42	..	.. ..	
	AE					,, ,,	P	13 17 41	..	.. ..	Feeble shock.		M	21 18 12	18	9 ..	
,, ,,	P	0 0 57	..	.. ..			F	13 45 0	..	.. ..			F	22 20 0	..	.. ..	
	S	0 7 42	..	.. ..		,, ,,	AE P	13 17 41	..	.. ..	Do.						
	L	0 15 57	..	.. ..			F	13 45 0	..	.. ..		,, ,,	AE P	20 45 50	..	.. ..	
	M	0 24 42	18	.. 6									S	20 55 35	..	.. ..	
	F	1 3 0	..	.. ..		,, 7th	AN P	2 8 16	..	.. ..			L	21 18 42	..	.. ..	
							S	2 11 55	..	.. ..			M	21 22 30	20	.. 6	
	AN																
,, ,,	P	10 8 36	..	.. ..			L	2 14 12	..	.. ..			F	22 20 0	..	.. ..	
	S	10 21 13	..	.. ..			M	2 15 58	7	3 ..			AN P	17 10 11	..	.. ..	Very feeble shock.
	L	10 52 56	..	.. ..			F	2 53 0	..	.. ..		,, 14th	F	17 44 0	..	.. ..	
	M	11 18 18	20	11 ..		,, ,,	AE	Record lost due to failure of light.					AE				
	F	13 24 0	..	.. ..								,, ,,	P	17 10 11	..	.. ..	
							AN						F	17 44 0	..	.. ..	Do.
	AE					,, ,,	P	3 53 24	..	.. ..	Very feeble shock.						
,, ,,	P	10 8 36	..	.. ..			F	4 8 0	..	.. ..		,, 15th	AN P	2 10 13	..	.. ..	
	S	10 21 13	..	.. ..			AE						S	Lost during shifting time.			
						,, ,,	P	3 53 24	..	.. ..	Do.						
	L	10 52 56	..	.. ..			F	4 8 0	..	.. ..			L	3 5 52	..	.. ..	
	M	11 11 4	24	.. 8									M	3 19 42	23	333 ..	
	F	13 24 0	..	.. ..			AN										
						,, 9th	Pe	9 26 0	..	.. ..	Do.		F	5 54 0	..	.. ..	
,, 4th	AN P	4 49 5	..	.. ..			F	9 42 0	..	.. ..			AE P	Lost due to failure of light.			
	S	4 53 33	..	.. ..			AE					,, ,,					
						,, ,,	Pe	9 26 0	..	.. ..	Do.		S	Lost during shifting time.			
	L	4 56 53	..	.. ..			f	9 42 0	..	.. ..			L	3 5 52	..	.. ..	
	M	4 58 11	9	3 ..			AN						M	3 17 35	25	.. 183	
	F	5 47 0	..	.. ..		,, 11th	P	22 23 52	..	.. ..	Do.		F	5 48 0	..	.. ..	
							F	22 55 0	..	.. ..							
,, ,,	AE P	4 49 5	..	.. ..			AE						AN				
						,, ,,	P	22 23 52	..	.. ..	Do.	,, ,,	P	21 10 39	..	.. ..	
	S	4 53 33	..	.. ..			F	22 55 0	..	.. ..			S	21 17 51	..	.. ..	
	L	4 56 53	..	.. ..									L	21 27 59	..	.. ..	
	M	5 0 18	7	.. 1			AN						M	21 33 39	15	11 ..	
	F	5 47 0	..	.. ..		,, 12th	e	15 14 0	..	.. ..	Tremors.		F	22 38 0	..	.. ..	
							f	15 44 0	..	.. ..							

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude. (μ) An. Ae.	Remarks.
1931.		H. M. S.			
Jan. 15th	AE	Record disturbed by insect.			
,, ,,	AN P	22 54 39	..	.. ..	
	S	23 3 58	..	.. ..	
	L	23 20 59	..	.. ..	
	M	23 28 27	19	8 ..	
,, 16th	F	0 49 0	..	.. ..	
,, 15th	AE	Record disturbed by insect.			
,, 16th	AN e	1 44 0	..	.. ..	Tremors.
	f	2 6 0	..	.. ..	
,, ,,	AE	Record disturbed by insect.			
,, 16th	AN P	19 39 30	..	.. ..	
	S	19 52 53	..	.. ..	
	L	20 28 11	..	.. ..	
	M	20 44 43	25	9 ..	
	F	21 43 0	..	.. ..	
,, ,,	AE P	19 39 30	..	.. ..	
	S	19 52 53	..	.. ..	
	L	20 28 11	..	.. ..	
	M	20 47 1	25	.. 9	
	F	21 43 0	..	.. ..	
,, 17th	AN P	3 12 1	..	.. ..	
	S	3 25 22	..	.. ..	
	L	4 0 14	..	.. ..	
	M	4 15 32	20	11 ..	
	F	5 13 0	..	.. ..	
,, ,,	AE P	3 12 1	..	.. ..	
	S	3 25 22	..	.. ..	
	L	4 0 14	..	.. ..	
	M	4 14 22	20	.. 8	
	F	5 13 0	..	.. ..	
,, 18th	AN P	4 38 15	..	.. ..	
	S	4 40 13	..	.. ..	
	L	4 41 0	..	.. ..	
	M	4 42 59	5	2 ..	
	F	4 58 0	..	.. ..	
,, ,,	AE P	4 38 15	..	.. ..	
	S	4 40 13	..	.. ..	
	L	4 41 0	..	.. ..	
	M	4 43 13	5	.. 11	
	F	4 58 0	..	.. ..	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude. (μ) An. Ae.	Remarks.
1931.		H. M. S.			
Jan. 18th	AN P	13 19 16	..	.. ..	
	S	13 21 8	..	.. ..	
	L	13 21 44	..	.. ..	
	M	13 30 40	7	2 ..	
	F	14 55 0	..	.. ..	
,, ,,	AE P	13 19 16	..	.. ..	
	S	13 21 8	..	.. ..	
	L	13 21 44	..	.. ..	
	M	13 30 33	9	.. 2	
	F	14 55 0	..	.. ..	
,, 19th	AN P	12 34 15	..	.. ..	
	S	12 42 15	..	.. ..	
	L	12 55 18	..	.. ..	
	M	13 0 56	16	4 ..	
	F	13 49 0	..	.. ..	
,, ,,	AE P	12 34 15	..	.. ..	
	S	12 42 15	..	.. ..	
	L	12 55 18	..	.. ..	
	M	13 0 28	17	.. 14	
	F	13 49 0	..	.. ..	
,, ,,	AN P	16 21 23	..	.. ..	
	S	16 29 32	..	.. ..	
	L	16 42 8	..	.. ..	
	M	16 51 1	18	4 ..	
	F	17 17 0	..	.. ..	
,, ,,	AE P	16 21 23	..	.. ..	
	S	16 29 32	..	.. ..	
	L	16 42 8	..	.. ..	
	M	16 47 15	17	.. 2	
	F	17 17 0	..	.. ..	
,, 20th	AN P	9 31 18	..	.. ..	
	S	9 34 39	..	.. ..	
	L	9 36 33	..	.. ..	
	M	9 39 0	7	10 ..	
	F	10 28 0	..	.. ..	
,, ,,	AE P	9 31 18	..	.. ..	
	S	9 34 39	..	.. ..	
	L	9 36 33	..	.. ..	
	M	9 36 52	16	.. 15	
	F	10 28 0	..	.. ..	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude. (μ) An. Ae.	Remarks.
1931.		H. M. S.			
Jan. 20th	AN P	15 32 32	..	.. ..	
	S	15 35 59	..	.. ..	
	L	15 37 22	..	.. ..	
	M	15 39 42	7	9 ..	
	F	16 31 0	..	.. ..	
,, ,,	AE P	15 32 32	..	.. ..	
	S	15 35 59	..	.. ..	
	L	15 37 22	..	.. ..	
	M	15 39 45	8	.. 6	
	F	16 31 0	..	.. ..	
,, ,,	AN P	23 52 11	..	.. ..	
	S	23 58 56	..	.. ..	
,, 21st	L	0 6 6	..	.. ..	
	F	0 57 0	..	.. ..	
,, 20th	AE P	23 52 11	..	.. ..	
	S	23 58 36	..	.. ..	
,, 21st	L	0 6 6	..	.. ..	
	F	0 57 0	..	.. ..	
,, 24th	AN P	13 50 18	..	.. ..	
	S	13 58 3	..	.. ..	
	L	14 8 48	..	.. ..	
	M	14 17 51	17	5 ..	
	F	15 41 0	..	.. ..	
,, ,,	AE P	13 50 18	..	.. ..	
	S	13 58 3	..	.. ..	
	L	14 8 48	..	.. ..	
	M	14 17 28	15	.. 6	
	F	15 41 0	..	.. ..	
,, ,,	AN e	18 36 42	..	.. ..	
	M	19 11 12	13	4 ..	
	f	20 1 0	..	.. ..	
,, ,,	AE e	18 36 42	..	.. ..	
	M	19 7 55	13	.. 4	
	f	20 1 0	..	.. ..	
,, 26th	AN P	4 18 16	..	.. ..	
	S	4 21 30	..	.. ..	
	L	4 23 3	..	.. ..	
	M	4 25 4	15	3 ..	
	F	5 7 0	..	.. ..	
,, ,,	AE P	4 18 16	..	.. ..	
	S	4 21 30	..	.. ..	
	L	4 23 3	..	.. ..	
	M	4 24 23	15	.. 3	
	F	5 7 0	..	.. ..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An. Ae.	Remarks.
1931.		H. M. S.			
Jan. 26th	AN P	22 31 23	..	.. ..	
	S	22 34 38	..	.. ..	
	L	22 36 10	..	.. ..	
	M	22 36 53	11	2 ..	
	F	22 54 0	..	.. ..	
,, ,,	AE P	22 31 28	..	.. ..	
	S	22 34 38	..	.. ..	
	L	22 36 10	..	.. ..	
	M	22 38 20	13	.. 2	
	F	22 54 0	..	.. ..	
,, 27th	AN P	20 14 15	..	.. ..	
	S	20 18 15	..	.. ..	
	L	20 20 38	..	.. ..	
	M	20 23 53	10	293 ..	
,, 28th	F	0 10 0	..	.. ..	
,, 27th	AE P	20 14 15	..	.. ..	
	S	20 18 15	..	.. ..	
	L	20 20 38	..	.. ..	
	M	20 24 38	9	.. 239	
,, 28th	F	0 10 0	..	.. ..	
,, ,,	AN e	20 42 0	..	.. ..	Tremors.
	F	21 7 0	..	.. ..	
,, ,,	AE e	20 42 0	..	.. ..	Do.
	F	21 7 0	..	.. ..	
,, ,,	AN P	21 35 19	..	.. ..	
	S	21 44 19	..	.. ..	
	L	22 0 22	..	.. ..	
	M	22 0 42	25	40 ..	
,, 29th	F	0 55 0	..	.. ..	
,, 28th	AE F	21 35 19	..	.. ..	
	S	21 44 19	..	.. ..	
	L	22 0 22	..	.. ..	
	M	22 6 4	16	.. 14	
,, 29th	F	0 55 0	..	.. ..	
,, ,,	AN e	17 18 29	..	.. ..	
	M	17 22 14	7	3 ..	
	F	Mixed up with the next shock.			
,, ,,	AE e	17 18 29	..	.. ..	
	M	17 26 28	6	.. 1	
	F	Mixed up with the next shock.			
,, ,,	AN P	17 42 9	..	.. ..	Feeble shock.
	F	18 3 0	..	.. ..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An. Ae.	Remarks.
1931.		H. M. S.			
Jan. 29th	AE P	17 42 9	..	.. ..	Feeble shock.
	S	18 3 0	..	.. ..	
	L	18 36 10	..	.. ..	
	M	18 36 53	11	2 ..	
	F	18 54 0	..	.. ..	
,, 30th	AN P	3 37 41	..	.. ..	
	S	3 41 56	..	.. ..	
	L	3 44 46	..	.. ..	
	M	3 49 59	7	3 ..	
	F	4 6 0	..	.. ..	
,, ,,	AE P	3 37 41	..	.. ..	
	S	3 41 56	..	.. ..	
	L	3 44 46	..	.. ..	
	M	3 47 21	7	.. 1	
	F	4 6 0	..	.. ..	
,, 31st	AN P	20 48 18	..	.. ..	
	S	20 52 45	..	.. ..	
	L	20 55 46	..	.. ..	
	M	20 57 8	7	2 ..	
	F	22 20 0	..	.. ..	
,, ,,	AE P	20 48 18	..	.. ..	
	S	20 52 45	..	.. ..	
	L	20 55 46	..	.. ..	
	M	23 57 54	7	.. 1	
	F	21 20 0	..	.. ..	
Feb. 1st	AN e	5 15 31	..	.. ..	Feeble shock
	F	5 34 0	..	.. ..	
,, ,,	AE e	5 15 31	..	.. ..	Do.
	F	5 34 0	..	.. ..	
,, 2nd	AN P	2 3 43	..	.. ..	Do.
	F	2 24 0	..	.. ..	
,, 2nd	AE P	2 3 43	..	.. ..	Do.
	F	2 24 0	..	.. ..	
,, ,,	AN P	3 45 57	..	.. ..	
	S	3 48 23	..	.. ..	
	L	3 49 19	..	.. ..	
	M	3 49 37	8	3 ..	
	F	4 11 0	..	.. ..	
,, ,,	AE P	3 45 57	..	.. ..	
	S	3 48 23	..	.. ..	
	L	3 49 19	..	.. ..	
	M	3 54 19	7	.. 1	
	F	4 11 0	..	.. ..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An. Ae.	Remarks.
1931.		H. M. S.			
Feb. 2nd	AN P	23 4 41	..	.. ..	
	S	23 15 37	..	.. ..	
	L	23 36 46	..	.. ..	
	M	23 52 35	16	163 ..	
,, 3rd	F	3 37 0	..	.. ..	
,, 2nd	AE P	23 4 41	..	.. ..	
	S	23 15 37	..	.. ..	
	L	23 36 46	..	.. ..	
	M	23 49 26	20	.. 146	
,, 3rd	F	3 37 0	..	.. ..	
,, 4th	AN e	6 41 0	..	.. ..	Tremors
	f	6 54 0	..	.. ..	
,, ,,	AE e	6 41 0	..	.. ..	Do.
	f	6 54 0	..	.. ..	
,, 7th	AN e	1 15 15	..	.. ..	
	M	1 20 25	6	2 ..	
	F	1 38 0	..	.. ..	
,, ,,	AE	Movements very faint due to weak illumination.			
,, ,,	AN P	15 7 21	..	.. ..	
	S	15 10 28	..	.. ..	
	L	15 11 50	..	.. ..	
	M	15 12 33	4	20 ..	
	F	15 35 0	..	.. ..	
,, ,,	AE P	15 7 21	..	.. ..	
	S	15 10 28	..	.. ..	
	L	15 11 50	..	.. ..	
	M	15 12 47	4	.. 6	
	F	15 35 0	..	.. ..	
,, 6th	AN Pe	2 3 20	..	.. ..	
	M	2 49 58	20	6 ..	
	F	4 1 0	..	.. ..	
,, ,,	AN Pe	2 3 20	..	.. ..	
	M	2 46 36	20	.. 5	
	F	4 1 0	..	.. ..	
,, 10th	AN P	1 28 6	..	.. ..	
	S	1 32 16	..	.. ..	
	L	1 34 54	..	.. ..	
	M	1 35 59	10	33 ..	
	F	2 24 0	..	.. ..	
,, ,,	AE P	1 28 6	..	.. ..	
	S	1 32 16	..	.. ..	
	L	1 34 54	..	.. ..	
	M	1 38 51	14	.. 12	
	F	2 24 0	..	.. ..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Feb. 10th	AN. P	6 41 51	..	..	..	
	S	6 47 38	..	..	..	
	L	6 53 8	..	..	..	
	M	6 57 50	21	176	..	
	F	11 18 0	..	..	..	
„ 10th	AE. P	6 41 51	..	..	..	
	S	6 47 38	..	..	..	
	L	6 53 8	..	..	..	
	M	6 55 23	22	..	171	
	F	11 18 0	..	..	..	
„ 11th	AN. P	17 31 44	..	..	..	
	M	18 8 36	19	5	..	
	F	18 37 0	..	..	..	
„ 11th	AE. P	17 31 44	..	..	..	
	M	18 5 32	21	..	4	
	F	18 37 0	..	..	..	
„ 11th	AN. P	19 52 44	..	..	..	
	S	19 56 59	..	..	..	
	L	19 59 40	..	..	..	
	M	20 0 37	8	10	..	
	F	20 37 0	.	..	..	
„ 11th	AE. P	19 52 44	..	..	..	
	S	19 56 59	..	..	..	
	L	19 59 40	..	..	..	
	M	20 2 4	8	..	3	
	F	20 37 0	..	..	..	
„ 11th	AN. e	23 45 0	..	..	..	Tremors.
„ 12th	F	0 2 0	..	..	..	
„ 11th	AE. e	23 45 0	..	..	..	Tremors.
„ 12th	F	0 2 0	..	..	..	
„ 12th	AN. P	5 51 25	..	..	..	
	S	5 57 11	..	..	..	
	L	6 3 4	..	..	..	
	M	6 7 16	16	12	..	
	F	8 8 0	..	..	..	
„ 12th	AE. P	5 51 25	..	..	..	
	S	5 57 11	..	..	..	
	L	6 3 4	..	..	..	
	M	6 8 12	16	..	16	
	F	8 8 0	..	..	..	
1931.		H. M. S.				
Feb. 13th	AN. P	0 49 14	..	..	..	Feeble shock.
	S	0 59 24	..	..	..	
	Le	1 18 9	..	..	..	
	F	1 36 0	..	..	..	
„ 13th	AE. P	0 49 14	..	..	..	Feeble shock.
	S	0 59 24	..	..	..	
	Le	1 18 9	..	..	..	
	F	1 36 0	..	..	..	
„ 13th	AN. P	1 45 20	..	..	..	
	S	1 56 7	..	..	..	
	L	2 17 44	..	..	..	
	M	2 33 44	18	102	..	
	F	5 10 0	..	..	..	
„ 13th	AE. P	1 45 20	..	..	..	
	S	1 56 7	..	..	..	
	L	2 17 44	..	..	..	
	M	2 36 14	18	..	84	
	F	5 10 0	..	..	..	
„ 13th	AN. P	11 38 44	..	..	..	Feeble shock.
	F	12 0 0	..	..	..	
„ 13th	AE. P	11 38 44	..	..	..	Feeble shock.
	F	12 0 0	..	..	..	
„ 13th	AN. P	22 22 34	..	..	..	
	S	22 26 34	..	..	..	
	L	22 29 14	..	..	..	
	M	22 39 21	12	3	..	
	F	23 6 0	..	..	..	
„ 13th	AE. P	22 22 34	..	..	..	
	S	22 26 34	..	..	..	
	L	22 29 14	..	..	..	
	M	22 41 16	13	..	3	
	F	23 6 0	..	..	..	
„ 13th	AN. e	23 29 0	..	..	..	Tremors.
	f	23 41 0	..	..	..	
„ 13th	AE. e	23 29 0	..	..	..	Tremors.
	f	23 41 0	..	..	..	
„ 14th	AN. P	14 6 15	..	..	..	
	S	14 12 0	..	..	..	
	L	14 16 50	..	..	..	
	M	14 23 24	15	26	..	
	F	16 23 0	..	..	..	
Feb. 14th	AE P	14 6 15	..	..	..	
	S	14 12 0	..	..	..	
	L	14 16 50	..	..	..	
	M	14 19 21	18	..	47	
	F	16 23 0	..	..	..	
„ 16th	AN. P	18 59 6	..	..	..	
	S	19 7 44	..	..	..	
	L	19 22 1	..	..	..	
	M	19 29 7	14	5	..	
	F	20 6 0	..	..	..	
Feb. 16th	AE. P	18 59 6	..	..	..	
	S	19 7 44	..	..	..	
	L	19 22 1	..	..	..	
	M	19 23 43	15	..	4	
	F	20 6 0	..	..	..	
„ 18th	AN. P	19 30 42	..	..	..	Very feeble shock.
	F	20 4 0	..	..	..	
„ 18th	AE. P	19 30 42	..	..	..	Very feeble shock.
	F	20 4 0	..	..	..	
„ 19th	AN. P	17 47 50	..	..	..	
	S	17 53 42	..	..	..	
	L	18 0 15	..	..	..	
	M	18 3 56	19	42	..	
	F	20 48 0	..	..	..	
„ 19th	AE. P	17 47 50	..	..	..	
	S	17 53 42	..	..	..	
	L	18 0 15	..	..	..	
	M	18 5 2	18	..	28	
	F	20 48 0	..	..	..	
„ 20th	AN. P	5 42 43	..	..	..	
	S	5 50 11	..	..	..	
	L	6 1 3	..	..	..	
	M	6 2 14	18	20	..	
	F	7 20 0	..	..	..	
„ 20th	AE. P	5 42 43	..	..	..	
	S	5 50 11	..	..	..	
	L	6 1 3	..	..	..	
	M	6 8 31	7	..	5	
	F	7 20 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	Amplitude (μ) AE.	Remarks.
1931.		H. M. S.				
Feb. 22nd	AN. P	21 36 47	..	..	..	Feeble shock.
	S	21 44 18	..	..	..	
	L	21 54 51	..	..	..	
	F	22 24 0	..	..	..	
	AE. P	21 36 47	..	..	..	Feeble shock.
„ 22nd	S	21 44 13	..	..	..	
	L	21 54 51	..	..	..	
	F	22 24 0	..	..	..	
	AN. Pe	17 35 43	..	..	..	
„ 24th	M	17 57 23	25	6	..	
	F	18 32 0	..	..	..	
	AE. Pe	17 35 43	..	..	..	
„ 24th	M	17 58 58	23	..	3	
	F	18 32 0	..	..	..	
	AN. P	9 47 13	..	..	..	
„ 27th	S	9 54 40	..	..	..	
	L	10 5 31	..	..	..	
	M	10 9 40	23	16	..	
	F	10 54 0	..	..	..	
	AE. Pe	9 47 13	..	..	..	
„ 27th	S	9 54 40	..	..	..	
	L	10 5 31	..	..	..	
	M	10 8 10	25	..	22	
	F	10 54 0	..	..	..	
	AN. e	2 21 0	..	..	..	Tremors.
„ 28th	f	2 37 0	..	..	..	
	AE. e	2 21 0	..	..	..	Tremors.
„ 28th	f	2 37 0	..	..	..	
	AN. P	22 30 27	..	..	..	
	S	22 34 29	..	..	..	
	L	22 37 5	..	..	..	
	M	22 39 1	7	2	..	
	F	22 59 0	..	..	..	
	AE. P	22 30 27	..	..	..	
„ 28th	S	22 34 29	..	..	..	
	L	22 37 5	..	..	..	
	M	22 40 34	7	..	1	
	F	22 59 0	..	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	Amplitude (μ) AE.	Remarks.
1931.		H. M. S.				
Mar. 2nd	AN. P	2 25 40	..	..	..	
	S	2 36 47	..	..	..	
	L	3 0 29	..	..	..	
	M	3 14 4	22	8	..	
	F	4 13 0	..	..	..	
	AE. P	2 25 40	..	..	..	
„ 2nd	S	2 36 47	..	..	..	
	L	3 0 29	..	..	..	
	M	3 16 55	18	..	4	
	F	4 13 0	..	..		
	AN. Pe	20 21 7	..	..	..	
„ 2nd	M	20 36 25	10	3	..	
	F	20 53 0	..	..	..	
	AE. Pe	20 21 7	..	..	..	
	M	20 36 49	7	..	1	
	F	20 53 0	..	..	..	
	AN. P	18 0 52	..	..	..	
„ 5th	S	18 5 38	..	..	..	
	L	18 9 16	..	..	..	
	M	18 17 54	15	6	..	
	F	20 33 0	..	..	..	
	AE. P	18 0 52	..	..	..	
„ 5th	S	18 0 58	..	..	..	
	L	18 9 16	..	..	..	
	M	18 21 30	12	..	4	
	F	20 33 0	..	..	..	
	AN. P	0 25 24	..	..	..	
„ 7th	S	0 32 27	..	..	..	
	L	0 41 59	..	..	..	
	M	0 46 24	22	6	..	
	F	Mixed up with the next shock.				
	AE. P	0 25 24	..	..	..	
„ 7th	S	0 32 27	..	..	..	
	L	0 41 59	..	..	..	
	M	0 47 14	·16	..	3	
	F	Mixed up with the next shock.				
	AN. Pe	1 5 14	..	..	..	Feeble shock.
„ 7th	f	3 5 0	..	..	..	
	AE. Pe	1 5 14	..	..	..	Feeble shock.
	f	3 5 0	..	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	Amplitude (μ) AE.	Remarks.
1931.		H. M. S.				
Mar. 7th	AN. Pe	10 18 28	..	..	..	Feeble shock
	f	11 51 0	..	..	..	
	AE. P	10 18 28	..	..	..	Feeble shock.
„ 7th	F	11 51 0	..	..	..	
	AN. e	21 58 0	..	..	..	Tremors.
„ 7th	f	22 8 0	..	..	..	
	AE. e	21 58 0	..	..	..	Tremors.
„ 7th	f	22 8 0	..	..	..	
	AN. P	1 59 5	..	..	..	
„ 8th	S	2 6 5	..	..	..	
	L	2 15 42	..	..	..	
	M	2 19 57	10	12	..	
	F	3 40 0	..	..	..	
	AE. P	1 59 5	..	..	..	
„ 8th	S	2 6 5	..	..	..	
	L	2 15 42	..	..	..	
	M	2 20 46	20	..	18	
	F	3 40 0	..	..	..	
	AN. Pe	12 44 11	..	..	..	
„ 8th	M	12 56 56	16	4	..	
	F	13 15 0	..	..	..	
	AE. Pe	12 44 11	..	..	..	
„ 8th	M	12 59 25	20	..	4	
	F	13 15 0	..	..	..	
	AN. P	3 59 25	..	..	..	
„ 9th	S	4 7 50	..	..	..	
	L	4 21 16	..	..	..	
	M	4 28 40	16	181	..	
	F	8 10 0	..	..	..	
	AE. P	3 59 25	..	..	..	
„ 9th	S	4 7 50	..	..	..	
	L	4 21 16	..	..	..	
	M	4 29 29	16	..	222	
	F	8 10 0	..	..	..	
	AN. P	6 8 44	..	..	..	
„ 11th	S	6 17 25	..	..	..	
	L	6 32 21	..	..	..	
	F	7 4 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An.	Amplitude. (μ) Ae.	Remarks.
1931.		H. M. S.				
Mar. 11th	AE. P	6 8 44	..	..	..	
	S	6 17 25	..	..	..	
	L	6 32 21	..	..	..	
	F	7 4 0	..	..	..	
,, 11th	AN. P	12 37 29	..	..	..	
	S	12 46 11	..	..	..	
	L	13 0 44	..	..	..	
	M	13 7 7	22	14	..	
	F	14 49 0	..	..	..	
,, 11th	AE. P	12 37 29	..	..	..	
	S	12 46 11	..	..	..	
	L	13 0 44	..	..	..	
	M	13 15 46	15	..	8	
	F	14 49 0	..	..	..	
,, 12th	AN. P	10 51 23	..	..	..	
	S	11 0 10	..	..	..	
	L	11 15 29	..	..	..	
	M	11 21 24	20	6	..	
	F	12 38 0	..	..	..	
,, 12th	AE. P	10 51 23	..	..	..	
	S	11 0 10	..	..	..	
	L	11 15 29	..	..	..	
	M	11 24 12	17	..	5	
	Fe	12 38 0	..	..	..	
,, 12th	AN. P	19 19 44	..	..	..	
	S	19 28 33	..	..	..	
	L	19 43 19	..	..	..	
	F	20 10 0	..	..	..	
,, 12th	AE. P	19 19 44	..	..	..	
	S	19 28 33	..	..	..	
	L	19 43 19	..	..	..	
	F	20 10 0	..	..	..	
,, 14th	AN. e	18 44 0	..	..	..	Tremors.
	f	19 2 0	..	..	..	
,, 14t	AE. e	18 44 0	..	..	..	Tremors.
	f	19 2 0	..	..	..	
,, 15th	AN. P	15 19 9	..	..	..	
	S	15 23 2	..	..	..	
	L	15 25 9	..	..	..	
	M	15 30 27	13	4	..	
	F	15 53 0	..	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An.	Amplitude. (μ) Ae.	Remarks.
1931.		H. M. S.				
Mar. 15th	AE. P	15 19 9	..	..	..	
	S	15 23 2	..	..	..	
	L	15 25 9	..	..	..	
	M	15 35 7	8	..	2	
	F	15 53 0	..	..	..	
,, 15th	AN. P	16 52 27	..	..	..	
	F	17 29 0	..	..	..	
,, 15th	AE. P	16 52 27	..	..	..	
	F	17 29 0	..	..	..	
,, 17th	AN. P	15 58 26	..	..	..	
	F	16 28 0	..	..	..	
,, 17th	AE. P	15 58 26	..	..	..	
	F	16 28 0	..	..	..	
,, 18th	AN. P	8 22 7	..	..	..	
	S	8 35 29	..	..	..	
	L	9 12 21	..	..	..	
	M	9 41 44	18	19	..	
	F	11 53 0	..	..	..	
,, 18th	AE. P	8 22 7	..	..	..	
	S	8 35 29	..	..	..	
	L	9 12 21	..	..	..	
	M	9 22 4	21	..	42	
	F	11 53 0	..	..	..	
,, 18th	AN. P	20 22 58	..	..	..	
	S	20 30 23	..	..	..	
	L	20 40 41	..	..	..	
	M	20 47 50	22	20	..	
	F	Mixed up with the next shock.				
,, 18th	AE. P	20 22 58	..	..	..	
	S	20 30 23	..	..	..	
	L	20 40 41	..	..	..	
	M	20 45·26	15	..	13	
	F	Mixed up with the next shock.				
,, 18th	AN. P	22 11 42	..	..	..	
	S	22 15 52	..	..	..	
	L	22 18 42	..	..	..	
	M	22 21 4	7	4	..	
	F	22 59 0	..	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An.	Amplitude. (μ) Ae.	Remarks.
1931.		H. M. S.				
Mar. 18th	AE. P	22 11 42	..	..	..	
	S	22 15 52	..	..	..	
	L	22 18 42	..	..	..	
	M	22 22 17	8	..	2	
	F	22 59 0	..	..	..	
,, 19th	AN. P	6 33 23	..	..	..	Very feeble shock.
	S	6 39 51	..	..	..	
	L	6 47 21	..	..	..	
	M	6 53 46	15	14	..	
	F	8 19 0	..	..	..	
,, 19th	AE. P	6 33 23	..	..	..	Very feeble shock.
	S	6 39 51	..	..	..	
	L	6 47 21	..	..	..	
	M	6 56 9	20	..	43	
	F	8 19 0	..	..	..	
,, 21st	AN. e	22 45 0	..	..	..	Tremors.
	f	23 3 0	..	..	..	
,, 21st	AE. e	22 45 0	..	..	..	Tremors.
	f	23 3 0	..	..	..	
,, 23rd	AN. P	15 32 54	..	..	..	Feeble shock.
	S	15 36 25	..	..	..	
	L	15 38 18	..	..	..	
	F	15 55 0	..	..	..	
,, 23rd	AE. P	15 32 54	..	..	..	Feeble shock.
	S	15 36 25	..	..	..	
	L	15 38 18	..	..	..	
	F	15 55 0	..	..	..	
,, 28th	AN. e	0 59 0	..	..	..	Tremors.
	f	1 22 0	..	..	..	
,, 28th	AE.	0 59 0	..	..	..	Tremors.
	f	1 22 0	..	..	..	
,, 28th	AN. P	12 48 50	..	..	..	
	S	12 57 5	..	..	..	
	L	13 9 37	..	..	..	
	M	13 11 8	18	29	..	
	F	16 1 0	..	..	..	
,, 28th	AE. P	12 48 50	..	..	..	
	S	12 57 5	..	..	..	
	L	13 9 37	..	..	..	
	M	13 10 56	17	..	27	
	F	16 1 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An.	Amplitude. (μ) Ae.	Remarks.
1931.		H. M. S.				
Mar. 29th	AN. e	17 49 0	..	..	..	Tremors.
	f	18 1 0	..	..	..	
	AE. e	17 49 0	..	..	..	Tremors.
	f	18 1 0	..	..	..	
,, 29th	AN. P	18 2 14	..	..	..	
	S	18 10 30	..	..	..	
	L	18 22 13	..	..	..	
	F	18 55 0	..	..	..	
,, 29th	AE. P	18 2 14	..	..	..	
	S	18 10 13	..	..	..	
	L	18 22 13	..	..	..	
	F	18 55 0	..	..	..	
,, 30th	AN. e	7 51 0	..	..	..	Tremors.
	f	8 8 0	..	..	..	
,, 30th	AE. e	7 51 0	..	..	..	Tremors.
	f	8 8 0	..	..	..	
,, 30th	AE. P	13 48 12	..	..	..	
	S	13 52 54	..	..	..	
	L	13 56 10	..	..	..	
	M	14 6 10	15	2	..	
	F	14 28 0	..	..	..	
,, 30th	AE. P	13 48 12	..	..	..	
	S	13 52 54	..	..	..	
	L	13 56 10	..	..	..	
	M	14 6 19	15	..	2	
	F	14 28 0	..	..	..	
,, 31st	AN. e	17 17 0	..	..	..	Tremors.
	f	17 51 0	..	..	..	
	AE. e	17 17 0	..	..	..	Do.
	f	17 51 0	..	..	..	
April 2nd	AN. P	0 33 3	..	..	..	
	S	0 37 20	..	..	..	
	L	0 40 18	..	..	..	
	M	0 41 8	7	4	..	
	F	1 6 0	..	..	..	
	AE. P	0 33 3	..	..	..	
	S	0 37 20	..	..	..	
	L	0 40 18	..	..	..	
	M	0 41 22	5	..	1	
	F	1 6 0	..	..	..	
1931.		H. M. S.				
Apl. 3rd	AN. P	Lost in shifting time.				Feeble shock.
	AE. P	2 16 6	..	..	..	Feeble shock.
	F	3 6 0	..	..	..	
,, 3rd	AN. e	3 22 0	..	..	..	Tremors.
	f	4 13 0	..	..	..	
,, 3rd	AE. e	3 22 0	..	..	..	Do.
	f	4 13 0	..	..	..	
,, 3rd	AN. P	21 50 40	..	..	..	Feeble shock.
	F	23 1 0	..	..	..	
,, 3rd	AE P	21 50 40	..	..	..	Do.
	F	23 1 0	..	..	..	
,, 3rd	AN P	23 36 10	..	..	..	Do.
	S	23 46 14	..	..	..	
,, 4th	L	0 5 3	..	..	..	
	F	1 2 0	..	..	..	
,, 3rd	AE P	23 36 10	..	..	..	Do.
	S	23 46 14	..	..	..	
,, 4th	L	0 5 3	..	..	..	
	F	1 2 0	..	..	..	
,, 6th	AN P	7 2 19	..	..	..	
	S	7 12 39	..	..	..	
	L	7 32 39	..	..	..	
	M	7 38 10	24	11	..	
	F	9 2 0	..	..	..	
,, 6th	AE P	7 2 19	..	..	..	
	S	7 12 39	..	..	..	
	L	7 32 39	..	..	..	
	M	7 35 30	24	..	12	
	F	9 29 0	..	..	..	
,, 7th	AN P	0 20 45	..	..	..	
	S	0 25 8	..	..	..	
	L	0 28 8	..	..	..	
	M	0 28 19	5	4	..	
	F	0 53 0	..	..	..	
,, 7th	AE P	0 20 45	..	..	..	
	S	0 25 8	..	..	..	
	L	0 28 8	..	..	..	
	M	0 29 6	7	..	1	
	F	0 53 0	..	..	..	
1931.		H. M. S.				
Apl. 7th	AN P	7 52 11	..	..	..	Feeble shock.
	Se	8 2 37	..	..	..	
	L	8 21 23	..	..	..	
	F	9 2 0	8	2	..	
,, 7th	AE P	7 52 11	..	..	..	Do.
	Se	8 2 37	..	..	..	
	L	8 21 23	..	..	..	
	F	9 2 0	..	..	..	
,, 8th	AN P	19 14 11	..	..	..	
	S	19 23 2	..	..	..	
	L	19 37 58	..	..	..	
	F	20 21 0	..	..	..	
,, 8th	AE P	19 14 11	..	..	..	
	S	19 23 2	..	..	..	
	L	19 37 58	..	..	..	
	F	20 21 0	..	..	..	
,, 9th	AN P	23 11 57	..	..	..	
	S	23 20 48	..	..	..	
	L	23 35 54	..	..	..	
	M	23 41 8	15	4	..	
,, 10th	F	0 15 0	..	..	..	
,, 9th	AE P	23 11 57	..	..	..	
	S	23 20 48	..	..	..	
	L	23 35 54	..	..	..	
	M	23 43 7	17	..	5	
,, 10th	F	0 15 0	..	..	..	
,, 11th	AN P	Lost in shifting time.				Feeble shock.
	F	2 39 0	..	..	..	
,, 11th	AE P	Lost in shifting time.				
	F	2 39 0	..	..	..	Do.
,, 12th	AN P	Lost in shifting time.				
	M	3 6 44	19	9	..	
	F	3 54 0	..	..	..	
,, 12th	AE P	Lost in shifting time.				
	M	3 39 3	16	..	2	
	F	3 54 0	..	..	..	
,, 15th	AN P	17 6 56	..	..	..	Feeble shock.
	F	18 7 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An.	Amplitude. (μ) Ae.	Remarks.
1931.		H. M. S.				
Apl. 15th	AE P	17 6 56	..	..	..	Feeble shock.
	F	18 7 0	..	..	..	
,, 16th	AN P	12 3 23	..	..	..	Do.
	F	13 5 0	..	..	..	
,, 16th	AE P	12 3 23	..	..	..	Do.
	F	13 5 0	..	..	..	
,, 16th	AN P	21 47 32	..	..	..	Distant feeble shock.
	S	21 58 14	..	..	..	
	L	22 19 19	..	..	..	
	F	23 9 0	..	..	..	
,, 16th	AE P	21 45 16	..	..	..	Do.
	S	21 56 6	..	..	..	
	L	22 18 12	..	..	..	
	F	23 4 0	..	..	..	
,, 16th	AN P	23 37 44	..	..	..	Feeble shock.
,, 17th	F	0 4 0	..	..	..	
,, 16th	AE P	23 37 15	..	..	..	Do.
,, 17th	F	0 4 0	..	..	..	
,, 19th	AN P	2 39 36	..	..	..	
	S	2 47 20	..	..	..	
	L	2 58 43	..	..	..	
	M	3 4 29	15	5	..	
	F	4 7 0	..	..	..	
,, 19th	AE P	2 39 36	..	..	..	
	S	2 47 20	..	..	..	
	L	2 58 43	..	..	..	
		3 5 58	12	..	2	
		4 3 0	..	..	..	
,, 22nd	AN Pe	0 10 40	..	..	..	
	M	0 45 34	21	4	..	
	F	1 57 0	..	..	..	
,, 22nd	AE Pe	0 10 40	..	..	..	
	M	0 43 25	16	..	3	
	F	1 57 0	..	..	..	
,, 23rd	AN P	4 14 2	..	..	..	Very feeble shock.
	F	4 25 0	..	..	..	
1931.		H. M. S.				
Apl. 23rd	AE P	4 14 2	..	..	..	
	F	4 25 0	..	..	..	
,, 24th	AN P	17 34 50	..	..	..	
	S	17 45 11	..	..	..	
	L	18 5 1	..	..	..	
	M	18 10 6	15	10	..	
	F	20 20 0	..	..	..	
,, 24th	AE P	17 34 50	..	..	..	
	S	17 45 11	..	..	..	
	L	18 5 1	..	..	..	
	M	18 9 36	24	..	18	
	F	20 20 0	..	..	..	
,, 26th	AN P	1 57 27	..	..	..	Feeble shock.
	F	2 39 0	..	..	..	
,, 26th	AE P	1 57 27	..	..	..	Do.
	F	2 39 0	..	..	..	
,, 26th	AN c	4 51 0	..	..	..	Tremors.
	f	5 47 0	..	..	..	
,, 26th	AE c	4 51 0	..	..	..	Do.
	f	5 47 0	..	..	..	
,, 27th	AN P	16 57 1	..	..	..	
	S	17 2 11	..	..	..	
	L	17 6 34	..	..	..	
	M	17 12 36	16	30	..	
	F	19 6 0	..	..	..	
,, 27th	AE P	16 57 1	..	..	..	
	S	17 2 11	..	..	..	
	L	17 6 34	..	..	..	
	M	17 12 21	15	..	19	
	F	19 6 0	..	..	..	
May 3rd	AN P	20 21 1	..	..	..	Feeble shock
	F	20 51 0	..	..	..	
	AE P	20 21 1	..	..	..	Do.
	F	20 51 0	..	..	..	
,, 4th	AN P	2 53 3	..	..	..	
	S	2 56 48	..	..	..	
	L	2 59 0	..	..	..	
	M	3 5 4	9	3	..	
	F	3 21 0	..	..	..	
1931.		H. M. S.				
May 4th	AE	Record lost due to stoppage of driving clock.				
,, 5th	AN P	6 46 39	..	..	..	Feeble shock.
	S	6 50 9	..	..	..	
	L	6 52 11	..	..	..	
	F	7 17 0	..	..	..	
,, 5th	AE P	6 46 39	..	..	..	Do.
	S	6 50 9	..	..	..	
	L	6 52 11	..	..	..	
	F	7 17 0	..	..	..	
,, 5th	AN P	14 15 9	..	..	..	Do.
	S	14 18 39	..	..	..	
	L	14 20 50	..	..	..	
	F	14 43 0	..	..	..	
,, 5th	AE P	14 15 9	..	..	..	Do.
	S	14 18 39	..	..	..	
	L	14 20 50	..	..	..	
	F	14 43 0	..	..	..	
,, 6th	AN Pe	15 23 3	..	..	..	
	M	16 3 50	17	3	..	
	F	17 0 0	..	..	..	
,, 6th	AE Pe	15 23 3	..	..	..	
	M	15 59 36	17	..	2	
	F	17 0 0	..	..	..	
,, 7th	AN P	0 50 2	..	..	..	
	S	0 53 32	..	..	..	
	L	Lost in hourly break.				
	F	1 24 0	..	..	..	
,, 7th	AE P	0 50 2	..	..	..	
	S	0 53 32	..	..	..	
	L	Lost in hourly break.				
	F	1 24 0	..	..	..	
,, 10th	AN P	19 48 41	..	..	..	Very feeble shock.
	F	20 22 0	..	..	..	
,, 10th	AE P	19 48 41	..	..	..	Do.
	F	20 22 0	..	..	..	
,, 10th	AN c	20 44 0	..	..	..	Tremors.
		21 19 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	AMPLITUDE. (μ) AN.	AMPLITUDE. (μ) AE.	REMARKS.
1931.		H. M. S.				
May 10th	AE e	20 44 0	..	..	..	Tremors.
	f	21 19 0	..	..	..	
,, 12th	AN P	1 48 30	..	..	..	
	S	1 58 48	..	..	..	
	L	Lost in shifting time.				
	M	2 23 9	17	5	..	
	F	3 7 0	..	..	..	
,, 12th	AE P	1 48 30	..	..	..	
	S	1 57 48	..	..	..	
	L	Lost in shifting time.				
	M	2 23 55	16	..	4	
	F	3 7 0	..	..	..	
,, 12th	AN P	10 29 39	..	..	..	Feeble shock.
	S	10 36 32	..	..	..	
	L	10 45 32	..	..	..	
	F	11 14 0	..	..	..	
,, 12th	AE P	10 29 39	..	..	..	Do.
	S	10 36 32	..	..	..	
	L	10 45 32	..	..	..	
	F	11 14 0	..	..	..	
,, 13th	AN P	7 58 43	..	..	..	Do.
	S	8 3 0	..	..	..	
	L	8 5 52	..	..	..	
	F	8 57 0	..	..	..	
,, 13th	AE P	7 58 43	..	..	..	Feeble shock
	S	8 3 0	..	..	..	
	L	8 5 52	..	..	..	
	F	8 57 0	..	..	..	
,, 13th	AN P	23 19 3	..	..	..	Do.
	F	23 54 0	..	..	..	
	AE P	23 19 3	..	..	..	Do.
	F	23 54 0	..	..	..	
,, 15th	AN e	8 3 0	..	..	..	Tremors.
	f	8 18 0	..	..	..	
	AE e	8 3 0	..	..	..	Do.
	f	8 18 0	..	..	..	
1931.		H. M. S.				
May 16th	AN P	9 52 21	..	..	..	Feeble shock.
	S	9 56 23	..	..	..	
	L	9 58 44	..	..	..	
	F	10 31 0	..	..	..	
,, 16th	AE P	9 52 21	..	..	.	Do.
	S	9 56 23	..	..	..	
	L	9 58 44	..	..	..	
	F	10 31 0	..	..	..	
,, 16th	AN e	21 6 0	..	..	..	Tremors.
	f	21 47 0	..	..	..	
,, 16th	AE e	21 6 0	..	..	..	Do.
	f	21 47 0	..	..	..	
,, 16th	AN e	21 59 0	..	..	..	Do.
	f	23 4 0	..	..	..	
,, 16th	AE e	21 59 0	..	..	..	Do.
	f	23 4 0	..	..	..	
,, 17th	AN P	0 58 28	..	..	..	
	S	1 2 35	..	..	..	
	L	1 5 7	..	..	..	
	M	1 6 18	7	2	..	
	F	1 29 0	..	..	..	
,, 17th	AE P	0 58 28	..	..	..	
	S	1 2 35	..	..	..	
	L	1 5 7	..	..	..	
	M	1 10 18	6	..	1	
	F	1 29 0	..	..	..	
,, 17th	AN e	9 34 0	..	..	..	Tremors
	f	10 5 0	..	..	..	
,, 17th	AE e	9 34 0	..	..	..	Do.
	f	10 5 0	..	..	..	
,, 17th	AN e	12 59 0	..	..	..	Do.
	f	13 25 0	..	..	..	
,, 17th	AE e	12 59 0	..	..	..	Tremors.
	f	13 25 0	..	..	..	
,, 17th	AN	15 33 35	..	..	..	Very feeble shock.
	F	16 5 0	..	..	..	
1931.		H. M. S.				
May 17th	AE P	15 33 35	..	..	..	Very feeble shock.
	F	16 5 0	..	..	..	
,, 20th	AN P	2 34 52	..	..	..	
	S	2 44 44	..	..	..	
	L	3 4 3	..	..	..	
	M	3 12 4	15	22	..	
	F	Mixed up with the next shock.				
,, 20th	AE P	2 34 52	..	..	..	
	S	2 44 44	..	..	..	
	L	3 4 3	..	..	..	
	M	3 15 57	16	..	17	
	F	Mixed up with the next shock.				
,, 20th	AN P	5 15 8	..	..	..	
	S	5 19 21	..	..	..	
	L	5 22 0	..	..	..	
	M	5 22 50	6	4	..	
	F	5 54 0	..	..	..	
,, 20th	AE. P	5 15 8	..	..	..	
	S	5 19 21	..	..	..	
	L	5 22 0	..	..	..	
	M	5 27 30	6	..	1	
	F	5 54 0	..	..	..	
,, 20th	AN P	22 13 40	..	..	..	Distant feeble shock.
	F	23 45 0	..	..	..	
,, 20th	AE P	22 13 40	..	..	..	Do.
	F	23 45 0	..	..	..	
,, 24th	AN P	0 22 12	..	..	..	
	S	0 29 35	..	..	..	
	L	0 39 51	..	..	..	
	F	1 23 0	..	..	..	
,, 24th	AE P	0 22 12	..	..	..	
	S	0 29 35	..	..	..	
	L	0 39 51	..	..	..	
	F	1 23 0	..	..	..	
,, 24th	AN Pe	8 9 41	..	..	..	Very feeble shock.
	f	8 27 0	..	..	..	
,, 24th	AE Pe	8 9 41	..	..	..	Very feeble shock.
	f	8 27 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	AE.	Remarks.
1931.		H. M. S.				
May 27th	AN P	0 53 4	..	..	..	
	S	0 56 35	..	..	..	
	L	0 58 35	..	..	..	
	F	1 19 0	..	..	..	
	AE P	0 53 4	..	..	..	
	S	0 56 35	..	..	..	
	L	0 58 35	..	..	..	
	F	1 19 0	..	..	..	
	AN e	6 39 0	..	..	..	Tremors.
	f	7 24 0	..	..	..	
	AE e	6 39 0	..	..	..	Do.
	f	7 24 0	..	..	..	
,, 28th	AN P	18 45 46	..	..	..	
	S	18 55 30	..	..	..	
	L	19 14 7	..	..	..	
	M	19 22 38	13	3	..	
	F	20 2 0	..	..	..	
	AE P	18 45 46	..	..	..	
	S	18 55 30	..	..	..	
	L	19 14 7	..	..	..	
	M	19 22 0	15	..	4	
	F	20 2 0	..	..	..	
,, 29th	AN P	5 44 24	..	..	..	Feeble shock.
	F	6 7 0	..	..	..	
	AE P	5 44 24	..	..	..	Do.
	F	6 7 0	..	..	..	
,, 30th	AN P	7 55 51	..	..	..	Do.
	S	7 56 57	..	..	..	
	L	7 57 16	..	..	..	
	F	8 9 0	..	..	..	
	AE P	7 55 51	..	..	..	Do.
	S	7 56 57	..	..	..	
	L	7 57 16	..	..	..	
	F	8 9 0	..	..	..	
	AN e	12 16 0	..	..	..	Tremors.
	f	12 44 0	..	..	..	
1931.		H. M. S.				
May 30th	AE e	12 16 9	..	..	..	Tremors.
	f	12 44 9	..	..	..	
June 1st	AN. Pc	0 25 5	..	..	..	Very feeble shock.
	f	0 49 0	..	..	..	
	AE Pc	0 25 5	..	..	..	Do.
	f	0 49 0	..	..	..	
	AN P	12 0 18	..	..	..	Do.
	F	12 57 0	..	..	..	
	AE P	12 0 18	..	..	..	Do.
	F	12 57 0	..	..	..	
,, 2nd	AN P	2 48 26	..	..	..	Feeble shock.
	S	2 55 12	..	..	..	
	L	3 3 21	..	..	..	
	F	3 26 0	..	..	..	
	AE. P	2 48 26	..	..	..	Do.
	S	2 55 12	..	..	..	
	L	3 3 21	..	..	..	
	F	3 26 0	..	..	..	
	AN e	3 34 0	..	..	..	Tremors.
	f	3 58 0	..	..	..	
	AE e	3 34 0	..	..	..	Do.
	f	3 58 0	..	..	..	
	AN P	12 4 4	..	..	..	
	S	12 5 21	..	..	..	
	L	12 5 49	..	..	..	
	M	12 5 58	4	3	..	
	F	12 18 0	..	..	..	
	AE P	12 4 4	..	..	..	
	S	12 5 21	..	..	..	
	L	12 5 49	..	..	..	
	M	12 5 57	4	..	3	
	F	12 18 0	..	..	..	
	AN P	17 44 25	..	..	..	Feeble shock.
	S	17 46 25	..	..	..	
	L	17 47 13	..	..	..	
	F	18 10 0	..	..	..	
1931.		H. M. S.				
June 2nd	AE P	17 44 26	..	..	..	Feeble shock.
	S	17 46 25	..	..	..	
	L	17 47 13	..	..	..	
	F	18 10 0	..	..	..	
,, 4th	AN P	10 0 26	..	..	..	
	S	10 8 45	..	..	..	
	L	10 21 11	..	..	..	
	F	11 0 0	..	..	..	
	AE P	10 0 26	..	..	..	
	S	10 8 45	..	..	..	
	L	10 21 11	..	..	..	
	F	11 0 0	..	..	..	
,, 9th	AN P	12 50 34	..	..	..	Do.
	S	12 55 44	..	..	..	
	L	13 0 14	..	..	..	
	F	13 11 0	..	..	..	
	AE P	12 50 34	..	..	..	Do.
	S	12 55 44	..	..	..	
	L	13 0 14	..	..	..	
	F	13 11 0	..	..	..	
	AN e	17 3 0	..	..	..	Tremors.
	f	17 38 0	..	..	..	
	AE e	17 3 0	..	..	..	Do.
	f	17 38 0	..	..	..	
,, 15th	AN e	12 37 0	..	..	..	Do.
	f	13 4 0	..	..	..	
	AE e	12 37 0	..	..	..	Do.
	f	13 4 0	..	..	..	
,, 17th	AN P	12 22 13	..	..	..	Feeble shocks.
	S	12 27 55	..	..	..	
	L	12 33 26	..	..	..	
	F	13 5 0	..	..	..	
	AE P	12 22 13	..	..	..	Do.
	S	12 27 55	..	..	..	
	L	12 33 26	..	..	..	
	F	13 5 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). An.	Amplitude (μ). Ae.	Remarks.
1931.		H. M. S.				
June 17th	AN P	17 16 50	..	..	..	Feeble shock.
	S	17 23 21	..	..	..	
	L	17 30 55	..	..	..	
	F	17 59 0	..	..	..	
	AE P	17 16 50	..	..	..	Do.
	S	17 23 21	..	..	..	
	L	17 30 55	..	..	..	
	F	17 59 0	..	..	..	
	AN P	18 2 7	..	..	..	
„ 18th	S	13 4 50	..	..	..	
	L	13 5 59	..	..	..	
	M	13 9 8	6	30	..	
	F	13 47 0	..	..	..	
	AE P	18 2 7	..	..	..	
	S	13 4 50	..	..	..	
	L	13 5 59	..	..	..	
	M	13 9 16	7	..	25	
	F	13 47 0	..	..	..	
	AN Pe	13 47 29	..	..	..	
	M	13 56 18	6	2	..	
	F	14 7 0	..	..	..	
	AE Pe	13 47 29	..	..	..	
	M	13 56 34	7	..	2	
	F	14 7 0	..	..	..	
	AN e	16 21 0	..	..	..	Tremors.
„ 22nd	f	17 0 0	..	..	..	
	AE e	16 21 0	..	..	..	Do.
	f	17 0 0	..	..	..	
	AN P	6 25 17	..	..	..	
„ 23rd	S	6 34 6	..	..	..	
	L	6 49 33	..	..	..	
	M	6 54 25	16	3	..	
	F	7 13 0	..	..	..	
	AE P	6 25 17	..	..	..	
	S	6 34 6	..	..	..	
	L	6 49 33	..	..	..	
	M	6 56 46	17	..	6	
	F	7 13 0	..	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). An.	Amplitude (μ). Ae.	Remarks.
1931.		H. M. S.				
June 23rd	AN P	12 17 41	..	..	..	Feeble shock.
	F	12 48 0	..	..	..	
	AE P	12 17 41	..	..	..	Do.
	F	12 48 0	..	..	..	
„ 24th	AN P	23 50 17	..	..	..	
	M	23 56 44	16	7	..	
„ 25th	F	0 32 0	..	..	..	
„ 24th	AE P	23 50 17	..	..	..	
	M	23 56 51	15	..	5	
„ 25th	F	0 27 0	..	..	..	
	AN e	0 49 0	..	..	..	Tremors.
	f	1 8 0	..	..	..	
	AE e	0 50 0	..	..	..	Do.
	f	1 7 0	..	..	..	
„ 27th	AN e	18 23 0	..	..	..	Do.
	f	18 53 0	..	..	..	
	AE e	18 23 0	..	..	..	Do.
	f	18 53 0	..	..	..	
July 12th	AN P	16 54 23	..	..	..	
	S	17 1 23	..	..	..	
	L	17 10 23	..	..	..	
	M	17 20 24	15	4	..	
	F	17 49 0	..	..	..	
	AE P	16 54 23	..	..	..	
	S	17 1 23	..	..	..	
	L	17 10 23	..	..	..	
	M	17 17 9	14	..	7	
	F	18 2 0	..	..	..	
„ 15th	AN Pe	16 44 44	..	..	..	
	M	17 8 10	12	7	..	
	F	17 53 0	..	..	..	
	AE Pe	16 44 44	..	..	..	
	M	17 9 37	12	..	5	
	F	17 49 0	..	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). An.	Amplitude (μ). Ae.	Remarks.
1931.		H. M. S.				
July 18th	AN P	11 35 19	..	..	..	
	S	11 45 4	..	..	..	
	L	12 2 8	..	..	..	
	M	12 6 30	17	9	..	
	F	13 6 0	..	..	..	
	AE P	11 35 19	..	..	..	
	S	11 45 4	..	..	..	
	L	12 2 8	..	..	..	
	M	12 11 20	14	..	7	
	F	12 56 0	..	..	..	
„ 21st	AN P	4 0 38	..	..	..	
	S	4 8 48	..	..	..	
	L	4 21 4	..	..	..	
	F	4 59 0	..	..	..	
	AE P	4 0 38	..	..	..	
	S	4 8 48	..	..	..	
	L	4 21 4	..	..	..	
	F	4 59 0	..	..	..	
„ 23rd	AN P	14 33 0	..	..	..	
	S	14 42 40	..	..	..	
	L	14 59 52	..	..	..	
	F	15 47 0	..	..	..	
	AE	Record lost due to stoppage of driving clock.				
„ 25th	AN P	12 45 26	..	..	..	
	S	12 49 49	..	..	..	
	L	12 52 48	..	..	..	
	F	13 40 0	..	..	..	
	AE P	12 45 26	..	..	..	
	S	12 49 40	..	..	..	
	L	12 52 48	..	..	..	
	F	13 41 0	..	..	..	
„ 28th	AN e	3 55 0	..	..	..	Tremors.
	f	4 34 0	..	..	..	
	AE e	3 55 0	..	..	..	Do.
	f	4 34 0	..	..	..	
	AN Pe	23 27 43	..	..	..	
	M	23 34 39	14	4	..	
„ 29th	F	0 24 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). AN. AE.	Remarks.
		H. M. S.			
1931.					
July 28th	AE				
	Pe	23 27 43	..	.. ..	
	M	23 35 17	11	.. 2	
„ 29th	F	0 29 0	..	.. ..	
	AN	Record lost owing to shift of zero (heavy rain).			
	AE				
	Pe	11 43 44	..	.. ..	
	M	11 54 33	7	.. 1	
	F	12 32 0	..	.. ..	
	AN				
	P	17 19 38	..	.. ..	
	S	17 23 5	..	.. ..	
	L	17 25 16	..	.. ..	
	F	17 52 0	..	.. ..	
	AE				
	P	17 19 38	..	.. ..	
	S	17 23 5	..	.. ..	
	L	17 25 16	..	.. ..	
	F	17 57 0	..	.. ..	
	AN				
Aug. 1st	e	19 57 0	..	.. ..	Tremors.
	f	20 11 0	..	.. ..	
	AE				
	e	19 57 0	..	.. ..	Do.
	f	20 11 0	..	.. ..	
	AN				
„ 2nd	e	15 43 0	..	.. ..	Do.
	f	15 55 0	..	.. ..	
	AE				
	e	15 43 0	..	.. ..	Do.
	f	15 55 0	..	.. ..	
	AN				
	P	18 7 50	..	.. ..	
	S	18 9 39	..	.. ..	
	L	18 10 14	..	.. ..	
	M	18 12 59	8	2 ..	
	F	Mixed up with the next shock.			
	AE				
	P	18 7 50	..	.. ..	
	S	18 9 39	..	.. ..	
	L	18 10 14	..	.. ..	
	M	18 11 27	10	.. 3	
	F	Mixed up with the next shock.			
	AN				
	P	18 19 53	..	.. ..	
	S	18 21 42	..	.. ..	
	L	18 22 21	..	.. ..	
	M	18 25 29	6	4 ..	
	F	19 1 0	..	.. ..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). AN. AE.	Remarks.
		H. M. S.			
1931.					
Aug. 2nd	AE				
	P	18 19 53	..	.. ..	
	S	18 21 42	..	.. ..	
	L	18 22 21	..	.. ..	
	M	18 23 49	6	.. 4	
	F	19 2 0	..	.. ..	
	AN				
	Pe	22 12 42	..	.. ..	Feeble shock.
	S	22 18 57	..	.. ..	
	L	22 14 26	..	.. ..	
	F	22 46 0	..	.. ..	
	AE				
	Pe	22 12 42	..	.. ..	Do.
	S	22 13 57	..	.. ..	
	L	22 14 26	..	.. ..	
	F	22 46 0	..	.. ..	
	AN				
„ 4th	Pe	5 44 34	..	.. ..	Do.
	F	6 15 0	..	.. ..	
	AE				
	Pe	5 44 34	..	.. ..	Do.
	F	6 15 0	..	.. ..	
	AN				
„ 6th	e	18 38 0	..	.. ..	Tremors.
	f	19 7 0	..	.. ..	
	AE				
	e	18 38 0	..	.. ..	Do.
	f	19 7 0	..	.. ..	
	AN				
„ 7th	P	2 23 30	..	.. ..	From Colaba No. 1 (AE).
	S	2 32 14	..	.. ..	
	L	2 46 44	..	.. ..	
	M	2 52 5	26	47 ..	
	F	5 21 0	..	.. ..	
	AE				
	P	2 23 30	..	.. ..	
	S	2 32 14	..	.. ..	
	L	2 46 44	..	.. ..	
	M	Record lost due to stoppage of clock.			
	F	5 12 0	..	.. ..	
„ 8th	AN	Record lost owing to shift of zero (heavy rain).			
	AE				
	e	1 8 0	..	.. ..	Tremors.
	f	1 28 0	..	.. ..	
	AN				
	P	4 12 18	..	.. ..	
	S	4 16 29	..	.. ..	
	L	4 19 19	..	.. ..	
	F	5 4 0	..	.. ..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). AN. AE.	Remarks.
		H. M. S.			
1931.					
Aug. 8th	AE				
	P	4 12 18	..	.. ..	
	S	4 16 29	..	.. ..	
	L	4 19 19	..	.. ..	
	F	5 4 0	..	.. ..	
	AN				
	P	8 59 3	..	.. ..	Feeble shock.
	F	9 31 0	..	.. ..	
	AE				
	P	8 59 3	..	.. ..	Do.
	F	9 31 0	..	.. ..	
	AN				
„ 10th	Pe	10 28 2	..	.. ..	
	M	10 38 28	10	4 ..	
	F	11 0 0	..	.. ..	
	AE				
	Pe	10 28 2	..	.. ..	
	M	10 39 37	7	.. 2	
	F	11 0 0	..	.. ..	
	AN				
	P	21 25 5	..	.. ..	
	S	21 30 19	..	.. ..	
	L	21 34 45	..	.. ..	
	M	21 49 32	8	285 ..	
„ 11th	F	1 36 0	..	.. ..	
	AE				
„ 10th	P	21 25 5	..	.. ..	
	S	21 30 19	..	.. ..	
	L	21 34 45	..	.. ..	
	M	21 51 9	9	.. 208	
„ 11th	F	1 46 0	..	.. ..	
	AN				
	P	7 15 45	..	.. ..	Do.
	F	7 39 0	..	.. ..	
	AE				
	P	7 15 45	..	.. ..	Do.
	F	7 39 0	..	.. ..	
	AN				
	P	17 47 44	..	.. ..	Do.
	F	18 6 0	..	.. ..	
	AE				
	P	17 47 44	..	.. ..	Do.
	F	18 6 0	..	.. ..	
	AN				
„ 12th	Pe	1 16 0	..	.. ..	Do.
	F	1 33 0	..	.. ..	
	AE				
	Pe	1 16 0	..	.. ..	Do.
	f	1 33 0	..	.. ..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). AN.	Amplitude (μ). AE.	Remarks.
1931.		H. M. S.				
Aug. 13th	AN e	23 3 0	..	..	..	Tremors.
	f	23 27 0	..	..	..	
	AE e	23 3 0	..	..	..	Do.
	f	23 27 0	..	..	..	
,, 15th	AN P	4 4 53	..	..	..	
	S	4 8 7	..	..	..	
	L	4 9 40	..	..	..	
	F	4 29 0	..	..	..	
	AE P	4 4 53	..	..	..	
	S	4 8 7	..	..	..	
	L	4 9 40	..	..	..	
	F	4 29 0	..	..	..	
,, 16th	AN e	12 29 0	..	..	..	Tremors.
	f	18 22 0	..	..	..	
	AE e	12 29 0	..	..	..	Do.
	f	13 22 0	..	..	..	
,, 18th	AN P	14 27 25	..	..	..	
	S	14 32 32	..	..	..	
	L	14 36 29	..	..	..	
	M	14 43 59	14	324	..	
	F	17 47 0	..	..	..	
	AE P	14 27 25	..	..	..	
	S	14 32 32	..	..	..	
	L	14 36 29	..	..	..	
	M	14 42 9	15	..	224	
	F	17 40 0	..	..	..	
	AN Pe	18 0 0	..	..	..	Very feeble shock.
	F	18 39 0	..	..	..	
	AE Pe	18 0 0	..	..	..	Do.
	F	18 49 0	..	..	..	
,, 24th	AN P	21 38 12	..	..	..	
	S	21 41 22	..	..	..	
	L	21 42 47	..	..	..	
	M	21 46 17	14	410	..	
	F	Mixed up with the next shock.				
1931.		H. M. S.				
Aug. 24th	AE P	21 38 12	..	..	..	
	S	21 41 22	..	..	..	
	L	21 42 47	..	..	..	
	M	21 46 33	14	..	314	
	F	Mixed up with the next shock.				
	AN P	23 32 47	..	..	..	
	S	23 35 22	..	..	..	
	L	23 36 31	..	..	..	
	M	23 39 24	12	14	..	
,, 25th	F	0 29 0	..	..	..	
,, 24th	AE P	23 32 47	..	..	..	
	S	23 35 22	..	..	..	
	L	23 36 31	..	..	..	
	M	23 38 17	5	..	12	
,, 25th	F	0 29 0	..	..	..	
	AN P	0 38 47	..	..	..	
	M	0 41 42	7	6	..	
	F	Mixed up with the next shock.				
	AE P	0 38 47	..	..	..	
	M	0 41 37	6	..	8	
	F	Mixed up with the next shock.				
	AN P	0 57 17	..	..	..	Very feeble shock.
	F	1 26 0	..	..	..	
	AE P	0 57 17	..	..	..	Do.
	F	1 26 0	..	..	..	
	AN P	3 9 52	..	..	..	
	S	3 12 30	..	..	..	
	L	3 13 26	..	..	..	
	M	3 16 54	10	8	..	
	F	4 4 0	..	..	..	
	AE P	3 9 52	..	..	..	
	S	3 12 30	..	..	..	
	L	3 13 26	..	..	..	
	M	3 17 22	12	..	7	
	F	4 4 0	..	..	..	
	AN P	10 11 58	..	..	..	Do.
	F	10 30 0	..	..	..	
1931.		H. M. S.				
Aug. 25th	AE P	10 11 58	..	..	..	Very feeble shock.
	F	10 30 0	..	..	..	
	AN P	15 50 48	..	..	..	Feeble shock.
	F	16 9 0	..	..	..	
	AE P	15 50 48	..	..	..	Do.
	F	16 9 0	..	..	..	
	AN P	16 42 48	..	..	..	Do.
	F	17 3 0	..	..	..	
	AE P	16 42 48	..	..	..	Do.
	F	17 3 0	..	..	..	
	AN P	18 58 48	..	..	..	Do.
	F	19 35 0	..	..	..	
	AE P	18 58 48	..	..	..	Do.
	F	19 35 0	..	..	..	
	AN e	21 43 0	..	..	..	Tremors.
	f	21 59 0	..	..	..	
	AE e	21 43 0	..	..	..	Do.
	f	21 59 0	..	..	..	
,, 26th	AN P	0 32 49	..	..	..	Very feeble shock.
	F	0 51 0	..	..	..	
	AE P	0 32 49	..	..	..	Do.
	F	0 51 0	..	..	..	
	AN P	4 9 44	..	..	..	Do.
	F	4 27 0	..	..	..	
	AE P	4 9 44	..	..	..	Do.
	F	4 27 0	..	..	..	
	AN P	5 35 44	..	..	..	Do.
	F	5 56 0	..	..	..	
	AE P	5 35 44	..	..	..	Do.
	F	5 56 0	..	..	..	
	AN e	6 24 0	..	..	..	Tremors.
	f	6 38 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Aug. 26th	AE e	6 24 0	..	..	..	Tremors.
	f	6 38 0	..	..	..	
	AN. P	8 1 59	..	..	..	Feeble shock.
	F	8 30 0	..	..	..	
	AE. P	8 1 59	..	..	..	Do.
	F	8 30 0	..	..	..	
	AN P	11 1 49	..	..	..	Slight shock.
	F	11 28 0	..	..	..	
	AE P	11 1 49	..	..	..	Do.
	F	11 28 0	..	..	..	
	AN P	15 22 15	..	..	..	Very feeble shock.
	F	15 42 0	..	..	..	
	AE P	15 22 15	..	..	..	Do.
	F	15 42 0	..	..	..	
	AN P	19 34 57	..	..	..	
	M	19 39 36	14	8	..	
	F	20 35 0	..	..	..	
	AE P	19 34 57	..	..	..	
	M	19 39 44	9	..	4	
	F	20 32 0	..	..	..	
	AN P	22 26 15	..	..	..	Very feeble shock.
	F	22 49 0	..	..	..	
	AE P	22 26 15	..	..	..	Do.
	F	22 49 0	..	..	..	
„ 27th	AN e	4 31 0	..	..	..	Tremors.
	f	5 5 0	..	..	..	
	AE e	4 31 0	..	..	..	Do.
	f	5 5 0	..	..	..	
	AN P	7 21 44	..	..	..	Very feeble shock.
	F	7 44 0	..	..	..	
	AE P	7 21 44	..	..	..	Do.
	F	7 44 0	..	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Aug. 27th	AN e	8 43 0	..	..	..	Tremors.
	f	9 12 0	..	..	..	
	AE e	8 43 0	..	..	..	Do.
	f	9 12 0	..	..	..	
	AN P	15 30 12	..	..	..	
	S	15 32 50	..	..	..	
	L	15 34 5	..	..	..	
	M	15 41 12	20	816	..	
	F	Mixed up with the next shock.				
	AE P	15 30 12	..	..	..	
	S	15 32 50	..	..	..	
	L	15 34 5	..	..	..	
	M	15 42 30	14	..	305	
	F	Mixed up with the next shock.				
	AN P	18 4 45	..	..	..	Feeble shock.
	F	Mixed up with the next shock.				
	AE P	18 4 45	..	..	..	Do.
	F	Mixed up with the next shock.				
	AN P	18 47 45	..	..	..	Do.
	F	19 35 0	..	..	..	
	AE P	18 47 45	..	..	..	Do.
	F	19 35 0	..	..	..	
	AN P	20 7 45	..	..	..	Very feeble shock.
	F	20 42 0	..	..	..	
	AE P	20 7 45	..	..	..	Do.
	F	20 42 0	..	..	..	
	AN e	21 16 0	..	..	..	Tremors.
	f	21 35 0	..	..	..	
	AE e	21 16 0	..	..	..	Do.
	f	21 35 0	..	..	..	
„ 28th	AN Pe	0 44 30	..	..	..	
	M	0 53 12	8	11	..	
	F	1 35 0	..	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Aug. 28th	AE Pe	0 44 30	..	..	..	
	M	0 51 33	9	..	13	
	F	1 31 0	..	..	..	
	AN P	3 22 46	..	..	..	Very feeble shock.
	F	3 42 0	..	..	..	
	AE P	3 22 46	..	..	..	Do.
	F	3 45 0	..	..	..	
	AN P	7 51 46	..	..	..	Do.
	F	8 15 0	..	..	..	
	AE P	7 51 46	..	..	..	Do.
	F	8 15 0	..	..	..	
	AN P	10 15 12	..	..	..	Feeble shock.
	F	10 42 0	..	..	..	
	AE P	10 15 12	..	..	..	Do.
	F	10 42 0	..	..	..	
	AN e	15 21 0	..	..	..	Tremors.
	f	15 32 0	..	..	..	
	AE e	15 21 0	..	..	..	Do.
	f	15 32 0	..	..	..	
	AN e	18 16 0	..	..	..	Do.
	f	18 39 0	..	..	..	
	AE e	18 16 0	..	..	..	Do.
	f	18 39 0	..	..	..	
	AN P	19 42 40	..	..	..	
	S	19 45 20	..	..	..	
	L	19 46 47	..	..	..	
	M	19 50 36	8	12	..	
	F	20 26 0	..	..	..	
	AE P	19 42 40	..	..	..	
	S	19 45 20	..	..	..	
	L	19 46 47	..	..	..	
	M	19 47 10	7	..	12	
	F	20 28 0	..	..	..	
	AN P	21 28 24	..	..	..	Feeble shock.
	F	21 56 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	Amplitude (μ) AE.	Remarks.
1931.		H. M. S.				
Aug. 28th	AE P	21 28 24	..	..	..	Feeble shock.
	F	21 56 0	..	..	..	
„ 29th	AN P	1 54 48	..	..	..	Do.
	F	Lost in shifting time.				
	AE P	1 54 48	..	..	..	Do.
	F	Lost in shifting time.				
	AN P	6 7 21	..	..	..	Very feeble shock.
	F	6 33 0	..	..	..	
	AE P	6 7 21	..	..	..	Do.
	F	6 33 0	..	..	..	
	AN P	13 30 14	..	..	..	Do.
	F	13 57 0	..	..	..	
	AE P	13 30 14	..	..	..	Do.
	F	13 57 0	..	..	..	
	AN P	19 58 45	..	..	..	Do.
	F	20 23 0	..	..	..	
	AE P	19 58 45	..	..	..	Do.
	F	20 23 0	..	..	..	
	AN P	0 40 22	..	..	..	Do.
	F	21 3 0	..	..	..	
	AE P	20 40 22	..	..	..	Do.
	F	21 3 0	..	..	..	
„ 30th	AN P	8 58 46	..	..	..	Do.
	F	9 14 0	..	..	..	
	AE P	8 58 46	..	..	..	Do.
	F	9 14 0	..	..	..	
	AN e	22 6 0	..	..	..	Tremors.
	f	22 18 0	..	..	..	
	AE e	22 6 0	..	..	..	Do.
	f	22 18 0	..	..	..	
	AN e	23 46 0	..	..	..	Do.
	f	23 59 0	..	..	..	
1931.		H. M. S.				
Aug. 30th	AE e	23 46 0	..	..	..	Tremors.
	f	23 59 0	..	..	..	
„ 31st	AN e	0 38 0	..	..	..	Do.
	f	0 52 0	..	..	..	
	AE e	0 38 0	..	..	..	Do.
	f	0 52 0	..	..	..	
	AN e	4 34 0	..	..	..	Do.
	f	4 55 0	..	..	..	
	AE e	4 34 0	..	..	..	Do.
	f	4 55 0	..	..	..	
Sept. 2nd	AN e	6 24 0	..	..	..	Do.
	f	6 47 0	..	..	..	
	AE e	6 24 0	..	..	..	Do.
	f	6 47 0	..	..	..	
	AN e	7 44 0	..	..	..	Do.
	f	8 5 0	..	..	..	
	AE e	7 44 0	..	..	..	Do.
	f	8 5 0	..	..	..	
„ 3rd	AN P	14 54 47	..	..	..	Very feeble shock.
	F	15 13 0	..	..	..	
	AE P	14 54 47	..	..	..	Do.
	F	15 13 0	..	..	..	
	AN P	17 15 13	..	..	..	
	S	17 17 56	..	..	..	
	L	17 19 17	..	..	..	
	M	17 20 47	9	4	..	
	F	Mixed up with the next shock.				
	AE P	17 15 13	..	..	..	
	S	17 17 56	..	..	..	
	L	17 19 17	..	..	..	
	M	17 21 1	10	..	3	
	F	Mixed up with the next shock.				
	AN P	17 36 47	..	..	..	Very feeble shock.
	F	17 49 0	..	..	..	
1931.		H. M. S.				
Sept. 3rd	AE P	17 36 47	..	..	..	Very feeble shock.
	F	17 49 0	..	..	..	
	AN e	17 54 0	..	..	..	Tremors.
	f	18 13 0	..	..	..	
	AE e	17 54 0	..	..	..	Do.
	f	18 13 0	..	..	..	
„ 4th	AN e	0 50 0	..	..	..	Do.
	f	1 25 0	..	..	..	
	AE e	0 50 0	..	..	..	Do.
	f	1 25 0	..	..	..	
„ 5th	AN P	8 30 54	..	..	..	Feeble shock.
	F	8 51 0	..	..	..	
	AE P	8 30 54	..	..	..	Do.
	F	8 51 0	..	..	..	
„ 6th	AN P	5 43 4	..	..	..	Do.
	F	6 18 0	..	..	..	
	AE P	5 43 4	..	..	..	Do.
	F	6 28 0	..	..	..	
	AN P	14 35 42	..	..	..	
	S	14 38 27	..	..	..	
	L	14 39 37	..	..	..	
	M	14 44 15	8	5	..	
	F	15 24 0	..	..	..	
	AE P	14 35 42	..	..	..	
	S	14 38 27	..	..	..	
	L	14 39 37	..	..	..	
	M	14 40 1	6	..	5	
	F	15 22 0	..	..	..	
„ 7th	AN P	21 17 39	..	..	..	
	S	21 20 14	..	..	..	
	L	21 21 19	..	..	..	
	F	21 50 0	..	..	..	
	AE P	21 17 39	..	..	..	
	S	21 20 14	..	..	..	
	L	21 21 19	..	..	..	
	F	21 50 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An.	Amplitude. (μ) Ae.	Remarks.
1931.		H. M. S.				
Sept. 8th	AN P	16 16 40	..	..	..	
	S	16 19 20	..	..	..	
	L	16 20 25	..	..	..	
	F	16 53 0	..	..	..	
	AE P	16 16 40	..	..	..	
	S	16 19 20	..	..	..	
	L	16 20 25	..	..	..	
	F	16 57 0	..	..	..	
	AN P	19 19 21	..	..	..	Distant feeble shock.
	F	20 42 0	..	..	..	
	AE P	19 19 21	..	..	..	Do.
	F	20 42 0	..	..	..	
„ 9th	AN P	20 49 14	..	..	..	
	S	20 57 58	..	..	..	
	L	21 13 6	..	..	..	
	F	22 55 0	..	..	..	
	AE P	20 49 14	..	..	..	
	S	20 57 58	..	..	..	
	L	21 13 6	..	..	..	
	F	22 55 0	..	..	..	
„ 10th	AN P	22 30 46	..	..	..	
	S	22 33 30	..	..	..	
	L	22 34 31	..	..	..	
	F	23 16 0	..	..	..	
	AE P	22 30 46	..	..	..	
	S	22 33 30	..	..	..	
	L	22 34 31	..	..	..	
	F	23 16 0	..	..	..	
„ 11th	AN P	16 27 40	..	..	..	Very feeble shock.
	F	16 54 0	..	..	..	
	AE P	16 27 40	..	..	..	Do.
	F	16 54 0	..	..	..	
	AN e	23 20 0	..	..	..	Tremors.
	f	23 39 0	..	..	..	
	AE e	23 20 0	..	..	..	Do.
	f	23 39 0	..	..	..	
1931.		H. M. S.				
Sept. 12th	AN P	2 5 25	..	..	..	Distant feeble shock.
	F	3 11 0	..	..	..	
	AE P	2 5 25	..	..	..	Do.
	F	3 11 0	..	..	..	
	AN P	12 34 25	..	..	..	
	S	12 37 9	..	..	..	
	L	12 38 5	..	..	..	
	F	13 7 0	..	..	..	
	AE P	12 34 25	..	..	..	
	S	12 37 9	..	..	..	
	L	12 38 5	..	..	..	
	F	13 7 0	..	..	..	
	AN P	18 35 30	..	..	..	
	S	18 38 10	..	..	..	
	L	18 39 13	..	..	..	
	F	19 16 0	..	..	..	
	AE P	18 35 30	..	..	..	
	S	18 38 10	..	..	..	
	L	18 39 13	..	..	..	
	F	19 16 0	..	..	..	
„ 13th	AN e	3 39 0	..	..	..	Tremors.
	f	3 54 0	..	..	..	
	AE e	3 39 0	..	..	..	Do.
	f	3 54 0	..	..	..	
	AN e	4 30 0	..	..	..	Do.
	f	4 53 0	..	..	..	
	AE e	4 30 0	..	..	..	Do.
	f	4 53 0	..	..	..	
	AN P	5 30 46	..	..	..	Feeble shock.
	F	6 21 0	..	..	..	
	AE P	5 30 46	..	..	..	Do.
	F	6 21 0	..	..	..	
„ 14th	AN P	3 36 10	..	..	..	
	S	3 39 22	..	..	..	
	L	3 41 1	..	..	..	
	F	4 27 0	..	..	..	
1931.		H. M. S.				
Sept. 14th	AE P	3 36 10	..	..	..	
	S	3 39 22	..	..	..	
	L	3 41 1	..	..	..	
	F	4 27 0	..	..	..	
„ 16th	AN P	10 44 37	..	..	..	Very feeble shock.
	F	11 3 0	..	..	..	
	AE P	10 44 37	..	..	..	Do.
	F	11 3 0	..	..	..	
	AN P	12 53 14	..	..	..	
	S	13 1 26	..	..	..	
	Le	13 14 58	..	..	..	
	F	13 43 0	..	..	..	
	AE P	12 53 14	..	..	..	
	S	13 1 26	..	..	..	
	Le	13 14 58	..	..	..	
	F	13 43 0	..	..	..	
„ 18th	AN P	18 2 24	..	..	..	Very feeble shock.
	S	18 2 37	..	..	..	
	L	18 2 47	..	..	..	
	F	18 9 0	..	..	..	
	AE P	18 2 24	..	..	..	Do.
	S	18 2 37	..	..	..	
	L	18 2 47	..	..	..	
	F	18 9 0	..	..	..	
	AN P	19 0 57	..	..	..	
	S	19 3 34	..	..	..	
	L	19 4 42	..	..	..	
	F	19 34 0	..	..	..	
	AE P	19 0 57	..	..	..	
	S	19 3 34	..	..	..	
	L	19 4 42	..	..	..	
	F	19 34 0	..	..	..	
	AN P	21 56 47	..	..	..	Very feeble shock.
	F	22 16 0	..	..	..	
	AE P	21 56 47	..	..	..	Do.
	F	22 16 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Sept. 19th	AN P	7 59 30	..	..	..	Feeble shock.
	F	8 45 0	..	..	..	
	AE P	7 59 30	..	..	..	Do.
	F	8 45 0	..	..	..	
„ 20th	AN P	15 32 48	..	..	..	Do.
	F	15 52 0	..	..	..	
	AE P	15 32 48	..	..	..	Do.
	F	15 52 0	..	..	..	
	AN P	23 47 53	..	..	..	Do.
„ 21st	F	0 24 0	..	..	..	
„ 20th	AE P	23 47 56	..	..	..	Do.
„ 21st	F	0 24 0	..	..	..	
	AN P	2 30 16	..	..	..	
	S	2 38 24	..	..	..	
	L	2 51 2	..	..	..	
	M	2 55 34	14	13	..	
	F	4 49 0	..	..	..	
	AE P	2 30 16	..	..	..	
	S	2 38 24	..	..	..	
	L	2 51 2	..	..	..	
	M	2 59 0	14	..	7	
	F	4 46 0	..	..	..	
	AN P	10 34 39	..	..	..	
	S	10 40 35	..	..	..	
	L	10 46 5	..	..	..	
	M	10 52 52	15	132	..	
	F	12 42 0	..	..	..	
	AE P	10 34 39	..	..	..	
	S	10 40 35	..	..	..	
	L	10 46 5	..	..	..	
	M	10 54 58	13	..	14	
	F	12 29 0	..	..	..	
	AN e	13 52 0	..	..	..	Tremors.
	f	15 0 0	..	..	..	
	AE e	13 52 0	..	..	..	Do.
	f	15 0 0	..	..	..	
Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Sept. 23rd	AN P	2 10 44	..	..	..	Feeble shock.
	F	2 36 0	..	..	..	
	AE P	2 10 44	..	..	..	Do.
	F	2 37 0	..	..	..	
„ 25th	AN P	4 33 47	..	..	..	Do.
	F	4 57 0	..	..	..	
	AE P	4 33 47	..	..	..	Do.
	F	4 57 0	..	..	..	
	AN P	6 7 9	..	..	..	
	S	6 13 2	..	..	..	
	L	6 18 55	..	..	..	
	M	6 22 17	21	728	..	
	F	11 42 0	..	..	..	
	AE P	6 7 9	..	..	..	
	S	6 13 2	..	..	..	
	L	6 18 55	..	..	..	
	M	6 21 47	20	..	296	
	F	10 29 0	..	..	..	
	AN P	16 57 47	..	..	..	Very feeble shock.
	F	17 55 0	..	..	..	
	AE P	16 57 47	..	..	..	Do.
	F	17 55 0	..	..	..	
	AN P	21 40 36	..	..	..	
	S	21 44 47	..	..	..	
	L	21 47 24	..	..	..	
	F	22 28 0	..	..	..	
	AE P	21 40 36	..	..	..	
	S	21 44 47	..	..	..	
	L	21 47 24	..	..	..	
	F	22 28 0	..	..	..	
„ 26th	AN P	20 22 45	..	..	..	Distant shock.
	F	22 26 0	..	..	..	
	AE P	20 22 45	..	..	..	Do.
	F	22 25 0	..	..	..	
„ 28th	AN P	17 25 49	..	..	..	Feeble shock.
	F	18 31 0	..	..	..	
Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Sept. 28th	AE P	17 25 49	..	..	..	Feeble shock.
	F	18 31 0	..	..	..	
„ 29th	AN P	5 24 8	..	..	..	
	S	5 31 38	..	..	..	
	L	5 42 14	..	..	..	
	F	6 29 0	..	..	..	
	AE P	5 24 8	..	..	..	
	S	5 31 38	..	..	..	
	L	5 42 14	..	..	..	
	F	6 29 0	..	..	..	
Oct. 1st	AN e	9 56 0	..	..	..	Tremors.
	f	10 27 0	..	..	..	
	AE e	9 56 0	..	..	..	Do.
	f	10 27 0	..	..	..	
„ 30th	AN P	11 17 45	..	..	..	
	S	11 20 24	..	..	..	
	L	11 21 30	..	..	..	
	M	11 24 36	8	6	..	
	F	12 39 0	..	..	..	
	AE P	11 17 45	..	..	..	
	S	11 20 24	..	..	..	
	L	11 21 30	..	..	..	
	M	11 24 15	8	..	8	
	F	12 41 0	..	..	..	
	AN P	12 59 18	..	..	..	
	S	13 1 57	..	..	..	
	L	13 3 0	..	..	..	
	F	13 36 0	..	..	..	
	AE P	12 59 18	..	..	..	
	S	13 1 57	..	..	..	
	L	13 3 0	..	..	..	
	F	13 36 0	..	..	..	
Oct. 1st	AN Pe	12 8 32	..	..	..	Distant feeble shock.
	F	13 51 0	..	..	..	
	AE Pe	12 8 32	..	..	..	Do.
	F	13 51 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Oct. 2nd	AN P	14 23 49	..	..	..	
	S	14 28 19	..	..	..	
	L	14 31 29	..	..	..	
	F	15 7 0	..	..	..	
	AE P	14 23 49	..	..	..	
	S	14 28 19	..	..	..	
	L	14 31 29	..	..	..	
	F	15 7 0	..	..	..	
	AN Pe	10 35 4	..	..	..	
,, 3rd	S	10 41 38	..	..	..	
	L	10 47 7	..	..	..	
	F	11 35 0	..	..	..	
	AE Pe	10 35 4	..	..	..	
	S	10 41 28	..	..	..	
	L	10 47 7	..	..	..	
	F	11 34 0	..	..	..	
	AN Pe	17 31 0	..	..	..	Very feeble shock.
	F	17 45 0	..	..	..	
	AE Pe	17 31 0	..	..	..	Do.
	F	17 46 0	..	..	..	
	AN P	19 26 41	..	..	..	
	S	19 37 43	..	..	..	
	L	20 0 21	..	..	..	
	M	20 26 30	15	63	..	
,, 4th	F	3 33 0	..	..	..	
	AE P	19 26 41	..	..	..	
,, 3rd	S	19 37 43	..	..	..	
	L	20 0 21	..	..	..	
	M	20 18 21	19	..	164	
,, 4th	F	3 34 0	..	..	..	
	AN P	11 28 15	..	..	..	
	S	11 31 55	..	..	..	
	L	11 34 10	..	..	..	
	M	11 37 8	9	4	..	
	F	12 9 0	..	..	..	
	AE P	11 28 15	..	..	..	
	S	11 31 55	..	..	..	
	L	11 34 10	..	..	..	
	M	11 37 8	9	..	3	
	F	12 14 0	..	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Oct. 4th	AN e	16 5 0	..	..	..	Tremors.
	f	16 42 0	..	..	..	
	AE e	16 5 0	..	..	..	Do.
	f	16 42 0	..	..	..	
	AN P	22 43 24	..	..	..	Very feeble shock.
	F	23 31 0	..	..	..	
	AE P	22 43 24	..	..	..	Do.
	F	23 31 0	..	..	..	
,, 5th	AN P	4 56 10	..	..	..	Do.
	F	5 52 0	..	..	..	
	AE P	4 56 10	..	..	..	
	F	5 52 0	..	..	..	
	AN P	22 35 24	..	..	..	
	S	22 38 37	..	..	..	
	L	22 39 53	..	..	..	
	M	22 43 23	8	12	..	
,, 6th	F	0 28 0	..	..	..	
	AE P	22 35 24	..	..	..	
	S	22 38 37	..	..	..	
	L	22 39 53	..	..	..	
	M	22 42 10	9	..	19	
,, 6th	F	0 31 0	..	..	..	
	AN P	17 59 57	..	..	..	Do.
	F	19 38 0	..	..	..	
	AE P	17 59 57	..	..	..	Do.
	F	19 38 0	..	..	..	
	AN Pe	21 18 50	..	..	..	Do.
	F	21 48 0	..	..	..	
	AE Pe	21 18 50	..	..	..	Do.
	F	21 53 0	..	..	..	
,, 9th	AN P	6 11 18	..	..	..	
	S	6 15 10	..	..	..	
	L	6 17 25	..	..	..	
	M	6 25 17	16	4	..	
	F	7 29 0	..	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Oct. 9th	AE P	6 11 18	..	..	..	
	S	6 15 10	..	..	..	
	L	6 17 25	..	..	..	
	M	6 19 35	16	..	5	
	F	7 27 0	..	..	..	
	AN Pe	15 43 0	..	..	..	Very feeble shock.
	F	15 55 0	..	..	..	
	AE Pe	15 43 0	..	..	..	Do.
	F	15 55 0	..	..	..	
,, 10th	AN P	0 34 4	..	..	..	
	S	0 44 37	..	..	..	
	L	1 6 1	..	..	..	
	M	1 9 45	25	128	..	
	F	7 8 0	..	..	..	
	AE P	0 34 4	..	..	..	
	S	0 44 37	..	..	..	
	L	1 6 1	..	..	..	
	M	1 22 48	19	..	60	
	F	7 8 0	..	..	..	
	AN e	7 32 0	..	..	..	Tremors.
	f	8 50 0	..	..	..	
	AE e	7 32 0	..	..	..	Do.
	f	8 50 0	..	..	..	
	AN P	16 57 43	..	..	..	
	M	17 18 31	11	8	..	
	F	18 20 0	..	..	..	
	AE P	16 57 43	..	..	..	
	M	17 20 38	13	..	8	
	F	18 23 0	..	..	..	
,, 11th	AN P	0 41 33	..	..	..	Very feeble shock.
	F	1 4 0	..	..	..	
	AE P	0 41 33	..	..	..	Do.
	F	1 2 0	..	..	..	
,, 12th	AN e	1 1 0	..	..	..	Tremors.
	f	1 27 0	..	..	..	
	AE e	1 1 0	..	..	..	Do.
	f	1 29 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Oct. 12th	AN e	3 47 0	..	..	..	Tremors.
	f	4 33 0	..	..	..	
	AE e	3 47 0	..	..	..	Do.
	f	4 29 0	..	..	..	
	AN P	13 50 2	..	..	..	Very feeble shock.
	F	14 44 0	..	..	..	
	AE P	13 50 2	..	..	..	Do.
	F	14 43 0	..	..	..	
„ 13th	AN e	5 16 0	..	..	..	Tremors.
	f	6 17 0	..	..	..	
	AE e	5 16 0	..	..	..	Do.
	f	6 17 0	..	..	..	
	AN e	11 20 0	..	..	..	Do.
	f	12 36 0	..	..	..	
	AE e	11 20 0	..	..	..	Do.
	f	12 36 0	..	..	..	
„ 14th	AN e	21 13 0	..	..	..	Do.
	f	22 22 0	..	..	..	
	AE e	21 13 0	..	..	..	Do.
	f	22 22 0	..	..	..	
„ 16th	AN e	13 7 0	..	..	..	Do.
	f	14 2 0	..	..	..	
	AE e	13 7 0	..	..	..	Do.
	f	14 2 0	..	..	..	
„ 18th	AN Pe	0 31 22	..	..	..	Distant feeble shock.
	F	2 58 0	..	..	..	
	AE Pe	0 31 22	..	..	..	Do.
	F	2 58 0	..	..	..	
	AN P	4 38 31	..	..	..	Feeble shock.
	F	6 34 0	..	..	..	
	AE P	4 38 31	..	..	..	Do.
	F	6 40 0	..	..	..	
1931.		H. M. S.				
Oct. 18th	AN P	7 12 9	..	..	..	
	S	7 16 36	..	..	..	
	L	7 19 52	..	..	..	
	M	7 20 12	7	6	..	
	F	8 5 0	..	..	..	
	AE P	7 12 9	..	..	..	
	S	7 16 36	..	..	..	
	L	7 19 52	..	..	..	
	M	7 23 23	9	..	3	
	F	8 6 0	..	..	..	
„ 20th	AN P	16 4 49	..	..	..	
	F	16 37 0	..	..	..	
	AE P	16 4 49	..	..	..	
	F	16 37 0	..	..	..	
„ 23rd	AN P	0 53 16	..	..	..	
	F	1 2 0	..	..	..	
	AE P	0 53 16	..	..	..	
	F	1 2 0	..	..	..	
	AN P	3 0 27	..	..	..	
	S	3 0 38	..	..	..	
	L	3 0 47	..	..	..	
	F	3 6 0	..	..	..	
	AE P	3 0 27	..	..	..	
	S	3 0 38	..	..	..	
	L	3 0 47	..	..	..	
	F	3 6 0	..	..	..	
	AN P	12 1 44	..	..	..	
	F	13 21 0	..	..	..	
	AE P	12 1 44	..	..	..	
	F	13 21 0	..	..	..	
	AN P	20 18 11	..	..	..	
	F	22 6 0	..	..	..	
	AE P	20 18 11	..	..	..	
	F	22 6 0	..	..	..	
„ 24th	AN e	2 59 0	..	..	..	
	f	3 22 0	..	..	..	
	AE e	2 59 0	..	..	..	
	f	3 22 0	..	..	..	
	AN e	4 48 0	..	..	..	
	f	5 10 0	..	..	..	
	AE e	4 48 0	..	..	..	
	f	5 10 0	..	..	..	
	AN P	11 48 17	..	..	..	
	F	13 29 0	..	..	..	
	AE P	11 48 17	..	..	..	
	F	13 33 0	..	..	..	
„ 26th	AN e	5 24 0	..	..	..	
	f	6 21 0	..	..	..	
	AE e	5 24 0	..	..	..	
	f	6 21 0	..	..	..	
	AN P	12 6 47	..	..	..	
	F	13 27 0	..	..	..	
	AE P	12 6 47	..	..	..	
	F	13 27 0	..	..	..	
	AN P	14 51 17	..	..	..	
	F	15 53 0	..	..	..	
	AE P	14 51 17	..	..	..	
	F	15 53 0	..	..	..	
	AN P	18 32 57	..	..	..	
	F	18 36 0	..	..	..	
	AE P	18 32 57	..	..	..	
	F	18 36 0	..	..	..	
	AN P	19 59 34	..	..	..	
	F	20 32 0	..	..	..	
	AE P	19 59 34	..	..	..	
	F	20 32 0	..	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Oct. 18th	AN P	7 12 9	..	..	..	
	S	7 16 36	..	..	..	
	L	7 19 52	..	..	..	
	M	7 20 12	7	6	..	
	F	8 5 0	..	..	..	
	AE P	7 12 9	..	..	..	
	S	7 16 36	..	..	..	
	L	7 19 52	..	..	..	
	M	7 23 23	9	..	3	
	F	8 6 0	..	..	..	
„ 20th	AN P	16 4 49	..	..	..	Very feeble shock.
	F	16 37 0	..	..	..	
	AE P	16 4 49	..	..	..	Do.
	F	16 37 0	..	..	..	
„ 23rd	AN P	0 53 16	..	..	..	Feeble local shock.
	F	1 2 0	..	..	..	
	AE P	0 53 16	..	..	..	Do.
	F	1 2 0	..	..	..	
	AN P	3 0 27	..	..	..	Do.
	S	3 0 38	..	..	..	
	L	3 0 47	..	..	..	
	F	3 6 0	..	..	..	
	AE P	3 0 27	..	..	..	Do.
	S	3 0 38	..	..	..	
	L	3 0 47	..	..	..	
	F	3 6 0	..	..	..	
	AN P	12 1 44	..	..	..	Feeble shock.
	F	13 21 0	..	..	..	
	AE P	12 1 44	..	..	..	Do.
	F	13 21 0	..	..	..	
	AN P	20 18 11	..	..	..	Do.
	F	22 6 0	..	..	..	
	AE P	20 18 11	..	..	..	Do.
	F	22 6 0	..	..	..	
„ 24th	AN e	2 59 0	..	..	..	Tremors.
	f	3 22 0	..	..	..	
	AE e	2 59 0	..	..	..	Tremors.
	f	3 22 0	..	..	..	
	AN e	4 48 0	..	..	..	Do.
	f	5 10 0	..	..	..	
	AE e	4 48 0	..	..	..	Do.
	f	5 10 0	..	..	..	
	AN P	11 48 17	..	..	..	Distant feeble shock.
	F	13 29 0	..	..	..	
	AE P	11 48 17	..	..	..	Do.
	F	13 33 0	..	..	..	
„ 26th	AN e	5 24 0	..	..	..	Tremors.
	f	6 21 0	..	..	..	
	AE e	5 24 0	..	..	..	Do.
	f	6 21 0	..	..	..	
	AN P	12 6 47	..	..	..	Feeble shock.
	F	13 27 0	..	..	..	
	AE P	12 6 47	..	..	..	Do.
	F	13 27 0	..	..	..	
	AN P	14 51 17	..	..	..	Do.
	F	15 53 0	..	..	..	
	AE P	14 51 17	..	..	..	Do.
	F	15 53 0	..	..	..	
	AN P	18 32 57	..	..	..	Feeble local shock.
	F	18 36 0	..	..	..	
	AE P	18 32 57	..	..	..	Do.
	F	18 36 0	..	..	..	
	AN P	19 59 34	..	..	..	Feeble shock.
	F	20 32 0	..	..	..	
	AE P	19 59 34	..	..	..	Do.
	F	20 32 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Oct. 27th	AN e	1 47 0	..	..	..	Tremors.
	f	2 20 0	..	..	..	
	AE e	1 47 0	..	..	..	Do.
	f	2 20 0	..	..	..	
	AN P	19 0 13	..	..	..	
	b	19 2 0	..	..	..	
	L	19 2 48	..	..	..	
	M	19 4 23	6	3	..	
	F	19 54 0	..	..	..	
	AE P	19 0 13	..	..	..	
	S	19 2 0	..	..	..	
	L	19 2 48	..	..	..	
	M	19 4 0	6	..	3	
	F	20 8 0	..	..	..	
	AN P	21 5 24	..	..	..	
	S	21 7 10	..	..	..	
	L	21 7 49	..	..	..	
	F	21 34 0	..	..	..	
	AE P	21 5 24	..	..	..	
	S	21 7 10	..	..	..	
	L	21 7 49	..	..	..	
	F	21 34 0	..	..	..	
,, 28th	AN F	5 43 42	..	..	..	
	M	6 5 9	13	4	..	
	F	7 15 0	..	..	..	
	AE	Record lost owing to faint illumination.				
,, 29th	AN P	7 34 25	..	..	..	Very feeble shock.
	F	8 4 0	..	..	..	
	AE P	7 34 25	..	..	..	Do.
	F	8 4 0	..	..	..	
	AN e	8 57 0	..	..	..	Tremors.
	f	9 28 0	..	..	..	
	AE e	8 57 0	..	..	..	Do.
	f	9 31 0	..	..	..	
1931.		H. M. S.				
Oct. 30th	AN P	10 15 47	..	..	..	Very feeble shock.
	F	10 35 0	..	..	..	
	AE P	10 15 47	..	..	..	Do.
	F	10 35 0	..	..	..	
	AN e	16 48 0	..	..	..	Feeble tremors.
	f	16 59 0	..	..	..	
	AE e	16 48 0	..	..	..	Do.
	f	16 59 0	..	..	..	
Nov. 1st	AN P	19 2 41	..	..	..	
	S	19 10 39	..	..	..	
	L	19 22 43	..	..	..	
	M	19 27 54	16	7	..	
	F	20 31 0	..	..	..	
	AE P	19 2 41	..	..	..	
	S	19 10 39	..	..	..	
	L	19 22 43	..	..	..	
	M	19 28 16	15	..	8	
	F	20 34 0	..	..	..	
Nov. 2nd	AN P	0 50 48	..	..	..	
	M	1 57 25	24	10	..	
	F	3 33 0	..	..	..	
	AE P	0 50 48	..	..	..	
	M	2 0 43	25	..	8	
	F	3 20 0	..	..	..	
	AN e	4 35 0	..	..	..	Tremors.
	f	5 14 0	..	..	..	
	AE e	4 35 0	..	..	..	Do.
	f	5 14 0	..	..	..	
	AN P	10 12 26	..	..	..	
	S	10 20 6	..	..	..	
	L	10 31 54	..	..	..	
	M	10 37 46	16	194	..	
	F	14 5 0	..	..	..	
	AE P	10 12 26	..	..	..	
	S	10 20 6	..	..	..	
	L	10 31 54	..	..	..	
	M	10 37 49	16	..	207	
	F	14 7 0	..	..	..	
1931.		H. M. S.				
Nov. 2nd	AN P	17 50 0	..	..	..	
	S	17 24 39	..	..	..	
	L	17 43 12	..	..	..	
	M	18 14 26	16	7	..	
	F	20 8 0	..	..	..	
	AE P	17 15 0	..	..	..	
	S	17 24 39	..	..	..	
	L	17 43 12	..	..	..	
	M	18 8 10	16	..	6	
	F	20 8 0	..	..	..	
,, 3rd	AN e	2 48 0	..	..	..	Tremors.
	f	3 9 0	..	..	..	
	AE e	2 48 0	..	..	..	Do.
	f	3 17 0	..	..	..	
	AN P	16 27 50	..	..	..	Feeble shock.
	F	17 32 0	..	..	..	
	AE P	16 27 50	..	..	..	Do.
	F	17 47 0	..	..	..	
,, 4th	AN P	15 25 42	..	..	..	
	S	15 28 38	..	..	..	
	L	15 30 4	..	..	..	
	F	16 6 0	..	..	..	
	AE P	15 25 42	..	..	..	
	S	15 28 38	..	..	..	
	L	15 30 4	..	..	..	
	F	16 7 0	..	..	..	
	AN P	18 4 55	..	..	..	
	M	18 33 1	21	8	..	
	F	19 26 0	..	..	..	
	AE P	18 4 55	..	..	..	
	M	18 39 8	16	..	5	
	F	19 37 0	..	..	..	
,, 5th	AN P	12 25 54	..	..	..	
	S	12 20 58	..	..	..	
	L	12 35 16	..	..	..	
	M	12 39 42	21	80	..	
	F	14 29 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An.	Amplitude. (μ) Ae.	Remarks.
1931.		H. M. S.				
Nov. 5th	AE P	12 25 54	..	..	..	
	S	12 30 53	..	..	..	
	L	12 35 16	..	..	..	
	M	12 40 1	17	..	54	
	F	14 38 0	..	..	..	
„ 6th	AN e	0 1 0	..	..	..	Tremors.
	f	0 24 0	..	..	..	
	AE e	0 1 0	..	..	..	Do.
	f	0 24 0	..	..	..	
„ 7th	AN Pe	5 9 7	..	..	..	Very feeble shock.
	F	5 37 0	..	..	..	
	AE Pe	5 9 7	..	..	..	Do.
	F	5 38 0	..	..	..	
„ 13th	AN P	1 15 45	..	..	..	
	S	1 18 6	..	..	..	
	L	1 19 6	..	..	..	
	F	1 40 0	..	..	..	
	AE P	1 15 45	..	..	..	
	S	1 18 6	..	..	..	
	L	1 19 6	..	..	..	
	F	1 40 0	..	..	..	
„ 15th	AN P	5 3 4	..	..	..	Feeble shock.
	F	5 38 0	..	..	..	
	AE P	5 3 4	..	..	..	Do.
	F	5 38 0	..	..	..	
„ 16th	AN P	2 53 23	..	..	..	Very feeble shock.
	F	3 42 0	..	..	..	
	AE P	2 53 23	..	..	..	Do.
	F	3 41 0	..	..	..	
	AN P	8 29 18	..	..	..	Do.
	F	9 22 0	..	..	..	
	AE P	8 29 18	..	..	..	Do.
	F	9 22 0	..	..	..	
1931.		H. M. S.				
Nov. 17th	AN P	9 52 30	..	..	..	Very feeble shock.
	F	10 22 0	..	..	..	
	AE P	9 52 30	..	..	..	Do.
	F	10 22 0	..	..	..	
„ 18th	AN P	3 50 44	..	..	..	Feeble distant shock.
	F	6 9 0	..	..	..	
	AE P	3 50 44	..	..	..	
	F	6 9 0	..	..	..	
„ 20th	AN P	10 55 21	..	..	..	Feeble shock.
	F	11 35 0	..	..	..	
	AE P	10 55 21	..	..	..	Do.
	F	11 35 0	..	..	..	
	AN P	14 29 42	..	..	..	
	S	14 40 6	..	..	..	
	L	14 59 19	..	..	..	
	M	15 29 57	16	5	..	
	F	17 27 0	..	..	..	
	AE P	14 29 42	..	..	..	
	S	14 40 6	..	..	..	
	L	14 59 19	..	..	..	
	M	15 7 2	29	..	18	
	F	17 30 0	..	..	..	
„ 21st	AN e	13 2 0	..	..	..	Tremors.
	f	13 30 0	..	..	..	
	AE e	13 2 0	..	..	..	Do.
	f	13 31 0	..	..	..	
„ 23rd	AN e	13 39 0	..	..	..	Do.
	f	14 20 0	..	..	..	
	AE e	13 39 0	..	..	..	Do.
	f	14 24 0	..	..	..	
„ 24th	AN P	9 16 15	..	..	..	Feeble shock.
	F	10 13 0	..	..	..	
	AE P	9 16 15	..	..	..	Do.
	F	10 13 0	..	..	..	
1931.		H. M. S.				
Nov. 26th	AN e	12 18 0	..	..	..	Tremors.
	f	14 2 0	..	..	..	
	AE e	12 18 0	..	..	..	Do.
	f	14 2 0	..	..	..	
„ 29th	AN P	19 57 57	..	..	..	
	S	20 2 24	..	..	..	
	L	20 5 25	..	..	..	
	F	20 28 0	..	..	..	
	AE P	19 57 57	..	..	..	
	S	20 2 24	..	..	..	
	L	20 5 25	..	..	..	
	F	20 28 0	..	..	..	
„ 30th	AN P	17 7 33	..	..	..	Feeble shock.
	S	17 11 35	..	..	..	
	L	17 13 43	..	..	..	
	F	17 48 0	..	..	..	
	AE P	17 7 33	..	..	..	Do.
	S	17 11 35	..	..	..	
	L	17 13 43	..	..	..	
	F	17 48 0	..	..	..	
	AN P	23 48 5	..	..	..	Very feeble shock.
Dec. 1st	F	0 7 0	..	..	..	
Nov. 30th	AE P	23 48 5	..	..	..	Do.
Dec. 1st	F	0 7 0	..	..	..	
	AN P	3 40 10	..	..	..	Distant feeble shock.
	F	6 0 0	..	..	..	
	AE P	3 40 10	..	..	..	Do.
	F	6 0 0	..	..	..	
	AN P	18 37 40	..	..	..	Do.
	F	20 46 0	..	..	..	
	AE P	18 37 40	..	..	..	Do.
	F	20 46 0	..	..	..	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				
Dec. 2nd	AN e	21 57 0	..	..	..	Tremors.
	f	22 40 0	..	..	..	
	AE e	21 57 0	..	..	..	Do.
	f	22 40 0	..	..	..	
„ 6th	AN e	4 30 0	..	..	..	Do.
	f	5 31 0	..	..	..	
	AE e	4 30 0	..	..	..	Do.
	f	5 31 0	..	..	..	
	AN P	23 8 59	..	..	..	
	S	23 12 40	..	..	..	
	L	23 14 44	..	..	..	
	M	23 18 12	11	5	..	
„ 7th	F	0 25 0	..	..	..	
„ 6th	AE P	23 8 59	..	..	..	
	S	23 12 40	..	..	..	
	L	23 14 44	..	..	..	
	M	23 19 14	9	..	8	
„ 7th	F	0 17 0	..	..	..	
	AN e	19 25 0	..	..	..	Tremors.
	f	20 20 0	..	..	..	
	AE e	19 25 0	..	..	..	Do.
	f	20 20 0	..	..	..	
„ 8th	AN e	20 1 0	..	..	..	Do.
	f	20 17 0	..	..	..	
	AE e	20 1 0	..	..	..	Do.
	f	20 17 0	..	..	..	
„ 10th	AN Pe	15 21 45	..	..	..	Very feeble shock.
	f	45 43 0	..	..	..	
	AE Pe	15 21 45	..	..	..	Do.
	f	15 43 0	..	..	..	
„ 11th	AN P	14 26 31	..	..	..	Do.
	B	15 17 0	..	..	..	
	AE P	14 26 31	..	..	..	Do.
	F	15 17 0	..	..	..	
1931.		H. M. S.				
Dec. 14th	AN P	9 24 47	..	..	..	Very feeble shock.
	F	9 52 0	..	..	..	
	AE P	9 24 47	..	..	..	Do.
	F	9 52 0	..	..	..	
	AN P	19 33 47	..	..	..	Do.
	F	20 30 0	..	..	..	
	AE P	19 33 47	..	..	..	Do.
	F	20 30 0	..	..	..	
„ 15th	AN P	1 37 15	..	..	..	Feeble shock.
	F	2 1 0	..	..	..	
	AE P	1 37 15	..	..	..	Do.
	F	2 1 0	..	..	..	
„ 16th	AN e	19 39 0	..	..	..	Tremors.
	f	20 1 0	..	..	..	
	AE e	19 39 0	..	..	..	Do.
	f	20 1 0	..	..	..	
„ 17th	AN P	21 37 50	..	..	..	Very feeble shock.
	F	21 59 0	..	..	..	
	AE P	21 37 50	..	..	..	Do.
	F	21 59 0	..	..	..	
„ 18th	AN P	2 11 44	..	..	..	Do.
	F	2 40 0	..	..	..	
	AE P	2 11 44	..	..	..	Do.
	F	2 40 0	..	..	..	
	AN P	9 56 39	..	..	..	
	S	10 2 39	..	..	..	
	L	10 8 4	..	..	..	
	M	10 13 12	16	14	..	
	F	13 26 0	..	..	..	
	AE P	9 56 39	..	..	..	
	S	10 2 39	..	..	..	
	L	10 8 4	..	..	..	
	M	10 13 8	13	..	11	
	F	13 20 0	..	..	..	
1931.		H. M. S.				
Dec. 19th	AN P	18 5 36	..	..	..	Very feeble shock.
	F	18 30 0	..	..	..	
	AE P	18 5 36	..	..	..	Do.
	F	18 30 0	..	..	..	
„ 20th	AN e	23 44 0	..	..	..	Tremors.
„ 21st	f	0 9 0	..	..	..	
„ 20th	AE e	23 44 0	..	..	..	
„ 21st	f	0 9 0	..	..	..	
	AN P	18 50 20	..	..	..	Very feeble shock.
	F	19 3 0	..	..	..	
	AE P	18 50 20	..	..	..	Do.
	F	19 3 0	..	..	..	
„ 24th	AN e	23 12 0	..	..	..	Do.
	f	23 36 0	..	..	..	
	AE e	23 12 0	..	..	..	Do.
	f	23 36 0	..	..	..	
„ 25th	AN Pe	3 17 42	..	..	..	Feeble shock.
	F	5 4 0	..	..	..	
	AE Pe	3 17 42	..	..	..	Do.
	F	5 4 0	..	..	..	
„ 28th	AN P	9 24 5	..	..	..	Do.
	F	10 6 0	..	..	..	
	AE P	9 24 5	..	..	..	Do.
	F	10 6 0	..	..	..	
	AN P	21 35 52	..	..	..	Do.
	F	22 38 0	..	..	..	
	AE P	21 35 52	..	..	..	Do.
	F	22 38 0	..	..	..	
„ 29th	AN P	16 46 9	..	..	..	Do.
	F	18 6 0	..	..	..	
	AE P	16 46 9	..	..	..	Do.
	F	18 6 0	..	..	..	

TABLE E 2—*concld.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An.	Amplitude. (μ) Ae.	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An.	Amplitude. (μ) Ae.	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An.	Amplitude. (μ) Ae.	Remarks.
1931.		H. M. S.					1931.		H. M. S.					1931.		H. M. S.				
	AN							AN							AE					
Dec. 30th	e	1 25 0	..	..	..	Tremors.	Dec. 31st	P	0 30 39	..	..	..		Dec. 31st	P	0 30 39	..	..	..	
	f	1 45 0	..	..	..			S	0 36 15	..	..	..			S	0 36 15	..	..	..	
	AE							L	0 41 21	..	..	..			L	0 41 21	..	..	..	
	e	1 25 0	..	..	..	Do.		F	3 5 0	..	..	..			F	3 13 0	..	..	..	
	f	1 45 0	..	..	..															

S. K. BANERJI,
Meteorologist,
Bombay

STATION—CALCUTTA (ALIPORE).

φ=22° 32′ N; λ=88° 20′ E; *h*=7·1 m. *Subsoil*—Alluvial.

Apparatus:—Omori—Ewing Horizontal Pendulum Seismographs and Milne Shaw Seismograph.

TABLE E 3.

		V	To	G	$\frac{1}{To^2}$
Milne Shaw—AN		250	12 Secs.	20·1	..
Omori	AN	29	29 Secs.	..	..
	AN	29	30 Secs.	..	..

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	AE.	Δ Distance (Km.)	Remarks.
1931.		H. M. S.					
Jan. 1st	P	23 58 49	5	..	..	2380	Milne shaw Seismograph (AN).
„ 2nd	L	0 6 13	9	..	..	..	Slight shock
	EF.	1 1 13	..	..	..	..	
„ 4th	P	4 47 59	Uncertain	..	..	960	Milne shaw Seismograph (AN).
	L	4 50 13	5	..	..	..	Slight shock.
	EF.	5 21 13	..	..	..	..	
	P	23 49 34	3	..	..	960	Milne shaw Seismograph (AN).
	L	23 51 59	6	..	..	..	Slight shock.
„ 5th	EF	0 11 59	..	..	..	..	
„ 7th	P	2 2 44	3	..	..	800	Milne shaw Seismograph (AN).
	L	2 4 29	9	..	..	..	Slight shock.
	F	Uncertain	..	..	..	..	
„ 9th	P	7 27 44	1	..	..	320	Milne shaw Seismograph (AN).
	L	7 28 33	3	..	..	..	Slight shock
	F	Uncertain	..	..	..	..	
„ 12th	P	20 45 49	3	..	..	7200	Milne shaw Seismograhh (AN).
	S	20 54 16	5	..	..	..	Slight shock.
	L	21 8 46	Uncertain	..	..	..	
	EF	22 1 46	..	..	..	..	
„ 15th	P	2 10 31	8	..	..	4400	Omori Seismographs Great distant shock.
A-E Instt.	S	2 24 29	Uncertain	..	..	..	
	L	2 56 47	24	..	..	..	
	M^1	3 6 0	..	..	..	1415	..
	M^2	3 9 20	..	..	..	1553	..
	F	4 21 20	..	..	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	AE.	Δ Distance (Km.)	Remarks.
1931.		H. M. S.					
Jan. 15th	P	2 10 32	7	..	..	14400	
A-N Instt.	L	2 54 2	22	..	..	..	Omori Seismographs Great distant shock.
	M	3 1 22	..	1104	..	..	
	EF	4 21 22	..	..	..	..	
Jan. 15th	EP	21 9 34	Uncertain	..	..	4640	Milne shaw Seismograph (AN).
	L	21 23 24	15	..	..	..	Slight shock.
	F	Uncertain	..	..	..	..	
„ 15th	P	22 54 24	4	..	..	5920	Milne shaw Seismograph (AN).
	S	23 1 56	6	..	..	..	Slight shock.
	EL	23 10 36	13	..	..	..	
„ 16th	EF	0 30 36	..	..	..	..	
	P	19 42 39	2	..	..	12960	Do.
	S	19 55 25	5	..	..	..	Do.
	L	20 27 40	Uncertain	..	..	..	
	F	21 38 50	..	..	..	..	
„ 17th	P	3 12 0	3	..	..	12800	Do.
	L	3 56 0	10	..	..	..	Do.
	F	5 6 0	..	..	..	..	
„ 18th	P	13 13 13	1	..	..	320	Omori Seismograph.
A-E Instt.	L	13 14 3	2	..	..	..	Slight shock.
	EF	13 26 3	..	..	..	..	
Jan. 18th	P	13 13 18	1	..	..	320	Do.
A-N Instt.	L	13 14 12	2	..	..	..	Do.
	EF	13 25 12	..	..	..	..	
Jan. 20th	P	9 31 43	3	..	..	1440	Milne shaw Seismograph (AN).
	L	9 35 28	6	..	..	..	Slight shock.
	F	Uncertain	..	..	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	AE.	Δ Distance (Km.)	Remarks.
1931.		H. M. S.					
Jan. 20th	P	16 30 49	3	..	..	1600	Milne shaw Seismograph (AN).
	L	16 34 43	6	..	..	..	Slight shock.
	F	17 20 53	..	..	..	..	
„ 20th	P	23 52 7	5	..	..	4640	Do.
	S	23 58 25	8	..	..	..	Do.
„ 21st	EF	0 38 25	..	..	..	..	
„ 24th	P	13 49 2	5	..	..	4000	Do.
	S	13 54 57	7	..	..	..	Do.
	L	14 0 32	9	..	..	..	
	EF	15 35 32	..	..	..	..	
„ 26th	P	22 30 8	Uncertain	..	..	1120	Omori Seismograph very slight shock.
A-E Instt.	L	22 32 56	7	..	..	..	
	EF	22 44 56	..	..	..	..	
Jan. 26th	P	22 30 16	4	..	..	..	
A-N Instt.	L	22 33 16	6	..	..	..	
	F	Uncertain	..	..	..	..	
Jan. 27th	P	20 11 16	13	..	..	640	Do.
A-E Instt.	L	20 12 46	17	..	..	..	Great shock.
	M	20 13 31	..	..	..	2415	..
	EF	20 15 6	..	..	..	..	
Jan. 27th	P	20 11 17	9	..	..	..	Do.
A-N Instt.	L	20 12 55	23	..	..	..	Do.
	M	20 14 5	..	..	..	2701	..
	EF	21 59 5	..	..	..	..	
Jan. 28th	P	20 36 4	4	..	..	800	Milne shaw Seismograph (AN).
	L	20 37 56	6	..	..	..	Slight shock.
	F	21 3 58	..	..	..	..	

TABLE E 3—*contd.*

Date.	Phase.	Time. G. M. T.	Period (Sec.).	AMPLITUDE. (μ) AN.	AMPLITUDE. (μ) AE.	Distance (Km.)	Remarks.
1931.		H. M. S.					
Jan. 28th	P	21 33 37	Uncertain	..	..	5920	Omori Seismographs Slight shock.
	S	21 41 9	Do.	..	..	..	
	L	21 52 26	Do.	..	..	..	
	F	Uncertain	..	..	..	..	
Jan. 29th	P	12 14 17	1	..	..	160	Omori Seismographs very slight shock
	L	12 14 31	Uncertain	..	..	..	
	F	Uncertain	..	..	..	..	
Jan. 29th	P	17 13 2	Uncertain	..	..	1120	Do.
A-E Instt.	L	17 16 2	7	..	..	..	Slight shock.
	F	Uncertain	..	..	..	..	
Jan. 29th	P	17 36 29	Uncertain	..	..	700	Do.
A-E Instt.	L	17 39 9	7	..	..	..	Slight shock.
	F	Uncertain	..	..	..	..	
Jan. 29th	P	12 14 20	1	..	..	160	Do.
A-N Instt.	L	12 14 35	Uncertain	..	..	..	Very slight shock.
	EF	12 16 35	..	..	..	..	
Jan. 29th	P	17 12 59	Uncertain	..	..	1120	Do.
A-N Instt.	S	17 14 45	4	..	..	..	Slight shock.
	L	17 15 57	8	..	..	..	
	F	Uncertain	..	..	..	..	
Jan. 29th	P	17 36 30	Uncertain	..	..	700	Do.
A-N Instt.	L	17 39 30	8	..	..	..	Slight shock.
	F	Uncertain	..	..	..	..	
Jan. 30th	P	3 36 14	2	..	..	640	Milne shaw Seismograph (AN).
	S	3 37 28	4	..	..	..	Slight shock.
	L	3 37 57	6	..	..	..	
	F	4 14 7	..	..	..	..	
,, 31st	P	20 45 58	4	..	..	1104	Do.
	S	20 47 54	6	..	..	..	Slight shock.
	L	20 48 58	8	..	..	..	
	F	21 36 28	..	..	..	..	
Feb. 1st	P	5 10 3	4	..	..	960	Do.
	S	5 11 50	5	..	..	..	Slight shock.
	L	5 12 55	6	..	..	..	
	F	5 33 19	..	..	..	..	
,, 2nd	P	3 40 18	2	..	..	800	Milne shaw Seismograph (AN).
	S	3 41 29	4	..	..	..	Slight shock.
	L	3 42 44	6	..	..	..	
	F	4 8 0	..	..	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	AMPLITUDE. (μ) AN.	AMPLITUDE. (μ) AE.	Distance (Km.)	Remarks.
1931.		H. M. S.					
Feb. 2nd	P	23 1 0	6	..	..	9440	Milne shaw Seismograph (AN). Slight shock.
	S	23 11 32	8	..	..	..	Great shock.
	L	23 32 15	20	..	..		
	M¹	23 37 7	..	75	..	..	
	M²	23 42 1	..	115	..	..	
	M³	23 46 27	..	132	..	..	
	M⁴	23 52 12	..	207	..	..	
,, 3rd	F	3 12 39	..	..	..	..	
,, 4th	P	6 34 42	2	..	..	1440	Do
	S	6 37 19	3	..	..	..	Slight shock.
	L	6 39 12	4	..	..	..	
	F	7 4 19	..	..	..	..	
,, 4th	P	11 13 18	2	..	..	1440	Do.
	L	11 16 41	4	..	..	..	Do.
	F	11 39 41	..	..	..	..	
,, 7th	P	1 9 27	2	..	..	480	Do.
	S	1 10 27	6	..	..	..	Do.
	L	1 10 51	10	..	..	..	
	F	1 33 51	..	..	..	..	
,, 7th	P	15 4 0	1	..	..	400	Omori Seismograph Moderate shock.
A-E Instt.	L	15 5 10	3	..	..	..	
	M	15 5 46	..	..	138	..	
	F	15 30 10	..	..	..	..	
Feb. 7th	P	15 3 58	1	..	..	400	Do.
A-N Instt.	S	15 4 34	2	..	..	..	Do.
	L	15 5 6	3	..	..	..	
	M¹	15 5 18	..	Uncertain	138	..	
	M²	15 5 41	..	,,	138	..	
	F	15 28 12	..	..	..	..	
Feb. 10th	P	1 25 1	6	..	..	880	Milne shaw Seismograph (AN). Moderate shock.
	S	1 26 29	8	..	..	..	
	L	1 27 22	15	..	..	..	
	M	1 30 29	..	100	..	..	
		3 1 49	..	..	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	AMPLITUDE. (μ) AN.	AMPLITUDE. (μ) AE.	Distance (Km.)	Remarks.
1931.		H. M. S.					
Feb. 10th	P	6 40 42	3	..	..	3600	Milne shaw Seismograph (AN). Moderate shock.
	S	6 46 3	7	..	..	..	Great shock.
	L	6 56 10	15	..	..	..	
	M	6 59 55	..	111	..	..	
	F	Uncertain	..	..	..	..	
,, 11th	P	19 46 1	3	..	..	768	Do.
	S	19 47 25	5	..	..	..	Slight shock.
	L	19 49 27	8	..	..	..	
	M	19 53 57	..	47	..	..	
	F	20 54 27	..	..	..	..	
,, 11th	P	23 39 39	4	..	..	720	Do.
	S	23 40 50	7	..	..	..	Slight shock.
	L	23 41 37	10	..	..	..	
,, 12th	F	0 5 22	..	..	..	..	
,, 12th	P	5 50 15	3	..	..	3360	Do
	S	5 55 21	5	..	..	..	Moderate shock.
	L	5 59 22	8	..	..	..	
	M¹	6 3 15	..	22	..	..	
	M²	6 9 52	..	26	..	..	
	F	Uncertain	..	..	..	..	
,, 13th	P	1 50 44	5	..	..	8800	Omori Seismograph Great shock.
A-N Instt.	S	Uncertain	..	..	..	..	
	L	2 18 58	12	..	..	..	
	F	Uncertain	..	..	..	..	
Feb. 13th	P	11 34 37	3	..	..	960	Milne shaw Seismograph (AN).
	S	11 36 28	6	..	..	..	Slight shock
	L	11 37 10	8	..	..	..	
	F	12 4 43	..	..	..	..	
,, 13th	P	22 20 35	3	..	..	1520	Do.
	S	22 23 8	6	..	..	..	
	L	22 24 32	8	..	..	..	
	F	23 8 37	..	..	..	..	
,, 14th	F	14 4 53	4	..	..	3360	
	S	14 9 53	6	..	..	..	Moderate shock.
	L	14 14 0	10	..	..	..	
	M	14 17 15	..	36	..	..	
	F	16 12 30	..	..	..	..	
,, 16th	P	18 57 41	2	..	..	5210	Do.
	S	19 4 44	6	..	..	..	Slight shock.
	L	19 13 24	12	..	..	..	
	F	20 23 1	..	..	..	..	

TABLE E 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Amplitude. (μ) AE.	Distance (Km.)	Remarks.
1931.		H. M. S.					
Feb. 19th	P	17 47 0	2	..	..	5760	Slight shock.
	S	17 54 15	6	..	..	..	Do.
	L	18 4 22	8	..	..	..	
	M^1	18 6 52	..	..	..	..	
	M^2	18 10 52	..	..	..	..	
	F	20 34 58	..	..	..	..	
,, 20th	P	5 41 3	2	..	..	4256	Do.
	S	5 47 3	6	..	..	..	Moderate shock.
	F	7 51 3	8	..	..	..	
,, 24th	P	17 40 9	1	..	..	2380	Do.
	S	17 47 59	3	..	..	..	Slight shock.
	L	18 0 19	8	..	..	..	
	F	18 35 19	..	..	..	..	
,, 27th	P	9 42 51	Uncertain	..	..	3040	Omori Seismograph slight shock.
A-E Instt.	L	9 51 26	6	..	..	..	
	F	10 27 56	..	..	..	..	
Feb. 27th	P	9 42 53	Uncertain	..	..	3040	Do.
A-N Instt.	S	9 47 37	4	..	..	..	Do.
	L	9 51 43	8	..	..	..	
	F	10 26 19	..	..	..	..	
Feb. 28th	P	22 28 49	2	..	..	1200	Milne shaw Seismograph (AN).
	S	22 30 59	4	..	..	..	Slight shock.
	L	22 32 1	8	..	..	..	
	M	22 32 4	..	9	..	..	
	F	22 56 4	..	..	..	..	
Mar. 2nd	P	2 31 41	Uncertain	..	..	3620	Omori Seismograph slight shock.
A-E Instt.	L	2 41 45	10	..	..	..	
	F	3 42 15	..	..	..	..	
Mar. 2nd	P	2 31 56	Uncertain	..	..	3620	Do.
A-N Instt.	L	2 42 3	8	..	..	..	Do.
	F	3 42 3	..	..	..	..	
Mar. 5th	P	17 30 35	2	..	..	2720	Milne shaw Seismograph (AN).
	S	17 34 45	4	..	..	..	Slight shock.
	L	17 38 5	7	..	..	..	
		17 43 35	..	10	..	..	
	F	18 54 11	..	..	..	..	
1931.		H. M. S.					
Mar. 7th	eP	0 34 41	2	..	..	4416	Milne shaw Seismograph (AN). Slight shock.
	L	0 47 43	6	..	..	..	Do.
	F	1 48 43	..	..	..	..	
,, 7th	eP	10 12 3	2	..	..	8480	Do.
	S	10 22 3	3	..	..	..	Do.
	L	10 49 53	5	..	..	..	
	F	Uncertain	..	..	..	..	
,, 8th	P	2 0 10	3	..	..	6400	Omori Seismograph Moderate shock.
A-N Instt.	S	2 8 9	7	..	..	..	
	L	2 20 24	10	..	..	..	
	M	2 24 9	..	138	..	..	
	F	3 46 19	..	..	..	..	
Mar. 9th	P	3 57 37	6	..	..	5600	Milne shaw Seismograph (AN). Great shock.
	S	4 4 51	12	..	..	..	
	L	4 15 13	22	..	..	..	
	M	4 20 13	..	26	..	..	
	F	7 21 51	..	..	..	..	
,, 11th	eP	6 8 47	Uncertain	..	..	3680	Milne shaw Seismograph (AN). Slight shock.
	S	6 14 27	4	..	..	..	
	L	6 19 7	9	..	..	..	
	F	6 56 19	..	..	..	..	
,, 11th	P	12 35 7	3	..	..	4980	Do.
	S	12 41 55	6	..	..	..	Do.
	L	12 56 22	10	..	..	..	
	M	13 2 52	..	17	..	..	
	F	14 32 52	..	..	..	..	
,, 12th	eP	10 49 20	2	..	..	5600	Do.
	S	10 56 34	5	..	..	..	Do.
	L	11 6 33	10	..	..	..	
	F	12 10 36	..	..	..	..	
,, 16th	P	15 17 7	Uncertain	..	..	980	Do.
	S	15 18 43	3	..	..	..	
	L	15 19 31	7	..	..	..	
	M^1	15 22 1	..	15	..	..	
	M^2	15 23 46	..	19	..	..	
	F	15 59 46	..	..	..	..	
Mar. 17th	P	15 59 57	Uncertain	..	..	880	Milne shaw Seismograph (AN). Slight shock.
	S	16 1 36	2	..	..	..	Do.
	L	16 2 12	4	..	..	..	
	F	16 24 48	..	..	..	..	
,, 18th	P	8 21 20	2	..	..	12800	Do.
	S	8 34 50	4	..	..	..	Moderate shock.
	L	9 5 8	7	..	..	..	
	F	12 9 20	..	..	..	..	
,, 18th	P	20 21 26	3	..	..	2400	Do.
	S	20 25 26	6	..	..	..	Do.
	L	20 27 50	10	..	..	..	
	M	20 28 35	..	45	..	..	
	F	Uncertain	..	..	..	..	
,, 18th	P	22 10 40	2	..	..	640	Milne shaw Seismograph (AN).
	S	22 11 46	4	..	..	..	Slight shock.
	L	22 12 42	6	..	..	..	
	M	22 13 42	..	22	..	..	
	F	23 1 48	..	..	..	..	
,, 19th	P	6 31 9	4	..	..	3680	Do.
	S	6 36 24	7	..	..	..	Moderate shock.
	L	6 40 29	10	..	..	..	
	M^1	6 44 29	..	40	..	..	
	M^2	6 47 59	..	71	..	..	
	F	8 27 5	..	..	..	..	
,, 23rd	eP	15 24 39	Uncertain	..	..	1280	Do.
	S	15 27 0	2	..	..	..	Slight Shock.
	L	15 27 54	5	..	..	..	
	F	15 53 57	..	..	..	..	
,, 28th	P	12 47 28	3	..	..	..	Do.
	S	12 55 16	6	..	..	..	Moderate shock.
	L	13 7 6	12	..	..	..	
	F	Uncertain	..	..	..	..	
April 2nd	eP	0 30 52	3	..	..	1120	Do.
	S	0 32 51	5	..	..	..	Slight shock.
	L	0 33 43	10	..	..	..	
	M	0 36 36	..	14	..	..	
	F	1 7 41	..	..	..	..	

TABLE E 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Amplitude (μ) Ae.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.					
April 6th	P	7 0 1	3	.. ..		7840	Slight shock.
	S	7 9 11	7	.. ..		..	Do.
	L	7 26 16	10	.. ..		..	
	F	9 49 14	..	.. ..		..	
,, 7th	P	0 19 16	3	.. ..		480	Milne shaw seismograph (AN).
	S	0 20 6	5	.. ..		..	Moderate shock.
	L	0 20 39	7	.. ..		..	
	M^1	0 21 24	..	22 ..		..	
	M^2	0 23 39	..	20 ..		..	
	M^3	0 26 9	..	21 ..		..	
	M^4	0 27 39	..	22 ..		..	
	F	1 0 39	..	.. ..		..	
,, 9th	P	23 10 25	3	.. ..		5440	Do.
	S	23 17 25	4	.. ..		..	Slight shock.
	L	23 27 10	8	.. ..		..	
,, 10th	F	0 21 44	..	.. ..		..	
,, 11th	P	2 5 20	Uncertain	.. ..		880	Do.
	S	2 6 39	,,	.. ..		..	Do.
	L	2 7 44	,,	.. ..		..	
	M^1	2 8 21	..	.. ..		..	
	M^2	2 9 36	..	.. ..		..	
	F	2 39 38	..	.. ..		..	
,, 12th	P	2 12 1	2	.. ..		11520	Do.
	S	2 24 9	5	.. ..		..	Do.
	L	2 51 31	8	.. ..		..	
	F	Uncertain	..	.. ..		..	
,, 16th	P	23 33 33	3	.. ..		720	Do.
	S	23 34 38	5	.. ..		..	Do.
	L	23 35 23	10	.. ..		..	
	F	Uncertain	..	.. ..		..	
,, 19th	eP	2 49 31	2	.. ..		1760	Do.
	S	2 52 31	3	.. ..		..	Do.
	L	2 53 55	14	.. ..		..	
	M	2 55 30	..	10 ..		..	
	F	3 44 0	..	.. ..		..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Amplitude (μ) Ae.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.					
April 20th	eP	17 41 37	Uncertain	.. ..		68	Milne shaw seismograph (AN).
	L	17 42 32	4	.. ..		..	Slight shock.
	F	Uncertain	..	.. ..		..	
,, 22nd	P	0 20 49	3	.. ..		5120	Do.
	S	0 33 42	5	.. ..		..	Do.
	L	0 42 49	12	.. ..		..	
	F	Uncertain	..	.. ..		..	
,, 23rd	eP	4 7 51	2	.. ..		560	Do.
	S	4 8 58	3	.. ..		..	Do.
	L	4 9 21	6	.. ..		..	
	F	4 28 26	..	.. ..		..	
,, 23rd	eP	14 31 39	2	.. ..		560	Do.
	S	14 32 29	3	.. ..		..	Do.
	L	14 32 54	4	.. ..		..	
	F	14 47 21	..	.. ..		..	
,, 24th	eP	12 10 1	Uncertain	.. ..		448	Do.
	L	12 11 1	,,	.. ..		..	Do.
	F	12 20 16	..	.. ..		..	
,, 24th	P	17 30 36	5	.. ..		7200	Do.
	S	17 39 20	7	.. ..		..	Moderat shock.
	L	17 53 6	12	.. ..		..	
	M	17 54 6	..	19 ..		..	
	F	20 59 59	..	.. ..		..	
,, 27th	P	16 59 1	2	.. ..		4160	Do.
	S	17 4 58	5	.. ..		..	Do.
	L	17 11 13	10	.. ..		..	
	M^1	17 15 6	..	36 ..		..	
	M^2	17 .1 51	..	38 ..		..	
	F	18 43 6	..	.. ..		..	
May 2nd	eP	17 49 0	3	.. ..		1120	Do.
	S	17 50 52	4	.. ..		..	Slight shock.
	L	17 52 40	6	.. ..		..	
	F	Uncertain	..	.. ..		..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Amplitude (μ) Ae.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.					
May 3rd	P	20 14 43	2	.. ..		800	Milne shaw seismograph (AN).
	S	20 16 13	3	.. ..		..	Slight shock.
	L	20 16 38	5	.. ..		..	
	F	Uncertain	..	.. ..		..	
,, 4th	P	2 51 18	2	.. ..		992	Do.
	S	2 53 5	3	.. ..		..	Do.
	L	2 55 30	5	.. ..		..	
	eF	3 13 35	..	.. ..		..	
,, 12th	P	1 47 9	3	.. ..		6400	Do.
	S	1 55 16	6	.. ..		..	Do.
	L	2 7 27	8	.. ..		..	
	F	Uncertain	..	.. ..		..	
,, 13th	eP	23 15 24	Uncertain	.. ..		3680	Do.
	S	23 20 54	4	.. ..		..	Do.
	L	23 25 22	5	.. ..		..	
,, 14th	eF	0 39 23	..	.. ..		..	
,, 16th	eP	9 52 9	Uncertain	.. ..		880	Do.
	S	9 53 45	2	.. ..		..	
	L	Uncertain	..	.. ..		..	
	F	10 10 18	..	.. ..		..	
,, 17th	P	0 57 39	3	.. ..		880	Do.
	S	0 59 9	5	.. ..		..	Do.
	L	0 59 44	7	.. ..		..	
	eF	1 15 36	..	.. ..		..	
,, 17th	P	9 39 58	2	.. ..		2240	Do.
	S	9 43 48	3	.. ..		..	Do.
	L	9 46 8	6	.. ..		..	
	F	Uncertain	..	.. ..		..	
,, 20th	P	2 35 36	5	.. ..		9600	Do.
	S	2 45 59	7	.. ..		..	Moderate shock.
	L	3 10 26	15	.. ..		..	
	M	3 19 21	..	64 ..		..	
	F	Uncertain	..	.. ..		..	

TABLE E 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An. Ae.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.				
May 20th	P	5 11 38	3	.. ..	1104	Milne shaw seismograph (AN). Moderate shock.
	S	5 13 39	4	.. ..	..	
	L	5 14 13	6	.. ..	..	
	M	5 15 43	..	20 ..	..	
	F	Uncertain	..	.. ..	..	
„ 23rd	P	21 18 23	2	.. ..	320	Do.
	S	21 19 8	3	.. ..	..	Slight shock.
	L	21 19 16	4	.. ..	..	
	F	Uncertain	..	.. ..	..	
„ 24th	P	0 22 28	3	.. ..	2400	Do.
	S	0 26 14	5	.. ..	..	Do.
	L	0 29 6	7	.. ..	..	
	F	Uncertain	..	.. ..	..	
„ 27th	P	0 47 19	2	.. ..	560	Do.
	S	0 48 19	3	.. ..	..	Do.
	L	0 48 42	6	.. ..	..	
	F	Uncertain	..	.. ..	..	
June 1st	P	0 21 43	3	.. ..	1280	Do.
	S	0 24 50	4	.. ..	..	Do.
	L	0 25 50	7	.. ..	..	
	F	Uncertain	..	.. ..	..	
„ 2nd	P	2 48 6	3	.. ..	2400	Do.
	S	2 52 2	6	.. ..	..	Do.
	eF	3 18 12	..	.. ..	..	
„ 2nd	P	3 30 3	3	.. ..	2400	Do.
	S	3 33 56	6	.. ..	..	Do.
	eF	3 54 26	..	.. ..	..	
„ 2nd	P	17 35 16	4	.. ..	2080	Do.
	S	17 48 46	5	.. ..	..	Do.
	L	17 50 46	certain ..	.. ..	..	
	F	18 3 16		.. ..	..	
„ 4th	P	9 58 49	3	.. ..	5600	Milne shaw seismograph (AN). Slight shock.
	S	10 5 56	5	.. ..	..	
	L	10 16 29	8	.. ..	..	
	F	Uncertain	..	.. ..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An. Ae.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.				
June 4th	P	2 12 38	3	.. ..	880	Slight shock.
	S	2 14 10	5	.. ..	..	Do.
	L	Uncertain	..	.. ..	..	
	F	2 20 18	..	.. ..	..	
„ 7th	P	2 5 59	2	.. ..	800	Do.
	S	2 7 16	4	.. ..	..	Do.
	L	Uncertain	..	.. ..	..	
	F	„	..	.. ..	..	
„ 9th	P	12 48 34	3	.. ..	1120	Do.
	S	12 45 40	5	.. ..	..	Do.
	L	12 46 28	8	.. ..	..	
	F	13 9 2	..	.. ..	..	
„ 10th	P	12 14 10	3	.. ..	1920	Do.
	S	12 17 28	5	.. ..	..	Do.
	L	12 19 18	8	.. ..	..	
	F	Uncertain	..	.. ..	..	
„ 17th	eP	7 22 46	..	.. ..	..	Slight shock. Tremors only.
„ 17th	P	12 20 31	Uncertain	.. ..	2560	Do.
	S	12 24 29	5	.. ..	..	
	L	12 27 29	6	.. ..	..	
	F	12 47 1	..	.. ..	..	
„ 17th	P	17 14 12	Uncertain	.. ..	2560	Do.
	L	17 21 0	7	.. ..	..	Do.
	F	Uncertain	..	.. ..	..	
„ 18th	P	13 0 40	4	.. ..	800	Do.
	S	13 2 11	6	.. ..	..	Moderate shock.
	L	13 2 41	8	.. ..	..	
	M	13 4 58	..	50 ..	..	
	F	13 35 18	..	.. ..	..	
„ 18th	eP	13 49 37	..	.. ..	..	Milne shaw seismograph (AN). Tremors only.
„ 20th	P	2 13 45	2	.. ..	800	Milne shaw seismograph (AN). Slight shock.
	S	2 15 11	4	.. ..	..	
	L	2 15 51	7	.. ..	..	
	F	2 27 31	..	.. ..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) An. Ae.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.				
June 23rd	P	6 28 8	3	.. ..	6400	Slight shock.
	S	6 30 45	5	.. ..	..	Do.
	L	6 43 13	9	.. ..	..	
	F	7 7 7	..	.. ..	..	
„ 24th	P	23 57 50	4	.. ..	1600	Do.
„ 25th	S	0 0 35	6	.. ..	..	Do.
	L	0 1 44	8	.. ..	..	
	F	0 30 24	..	.. ..	..	
„ 25th	eP	0 44 0	4	.. ..	1600	Do.
	L	0 47 54	8	.. ..	..	Do.
	F	1 1 48	..	.. ..	..	
„ 28th	P	12 41 38	2	.. ..	400	Do.
	S	12 42 18	Uncertain	.. ..	..	Do.
	L	12 42 40	7	.. ..	..	
	eF	12 48 10	..	.. ..	..	
„ 29th	eP	20 40 5	..	.. ..	..	Slight shock. Tremors only.
July 1st	eP	7 58 8	Uncertain	.. ..	1048	Slight shock.
	S	7 54 58	3	.. ..	..	Do.
	L	7 55 48	4	.. ..	..	
	F	Uncertain	..	.. ..	..	
„ 12th	P	16 51 32	5	.. ..	3744	Do.
	S	16 56 47	7	.. ..	..	Moderate shock.
	L	17 1 44	9	.. ..	..	
	F	18 1 20	..	.. ..	..	
„ 15th	eP	14 59 12	..	.. ..	..	Moderate shock. Tremors only.
„ 15th	P	16 44 5	4	.. ..	4416	Milne shaw seismograph (AN).
	S	16 50 15	6	.. ..	..	Moderate shock.
	L	16 56 50	8	.. ..	..	
	F	17 27 10	..	.. ..	..	
„ 18th	P	11 34 27	4	.. ..	8640	Do.
	S	11 44 15	6	.. ..	..	Slight shock.
	L	12 4 37	10	.. ..	..	
	eF	12 27 21	..	.. ..	..	
„ 21st	P	3 53 27	3	.. ..	8000	Do.
	S	4 2 46	6	.. ..	..	Do.
	L	4 20 40	8	.. ..	..	
	eF	4 36 10	..	.. ..	..	

TABLE E 3--*contd.*

Date.	Phase.	Time G.M.T.	Period (Sec.).	Amplitude. (μ) An. Ae.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.				
July 21st	P	20 0 46	Uncertain	.. ..	1440	Slight shock
	S	20 12 4	3	.. ..	..	Do.
	L	20 13 16	6	.. ..	..	
	F	Uncertain	..	.. ..	..	
„ 23rd	P	14 32 18	2	.. ..	3200	Do.
	S	14 37 25	4	.. ..	..	Do.
	L	14 41 3	6	.. ..	..	
	eF	15 1 53	..	.. ..	..	
„ 25th	P	12 34 4	4	.. ..	640	Do.
	S	12 35 22	5	.. ..	..	Moderate shock.
	L	12 35 58	7	.. ..	..	
	F	13 2 18	..	.. ..	..	
„ 25th	P	15 32 30	Uncertain	.. ..	640	Moderate shock.
	S	15 33 48	4	.. ..	..	Slight shock.
	L	15 34 24	6	.. ..	..	
	F	Uncertain	..	.. ..	..	
„ 27th	P	0 3 8	3	.. ..	1440	Do.
	S	0 5 26	5	.. ..	..	Do.
	L	0 6 38	7	.. ..	..	
	eF	0 17 18	..	.. ..	..	
„ 28th	P	17 38 5	..	.. ..	..	Milne shaw seismograph (AN) tremors only.
„ 29th	eP	11 43 58	3	.. ..	1120	Do.
	L	11 46 44	6	.. ..	..	Slight shock.
	F	Uncertain	..	.. ..	..	
July 30th	P	17 13 24	2	.. ..	880	Do.
	S	17 14 54	3	.. ..	..	
	L	17 15 36	4	.. ..	..	
	F	Uncertain	..	.. ..	..	
Aug. 2nd	P	15 47 50	3	.. ..	1216	Do.
	S	15 49 50	4	.. ..	..	
	L	15 50 42	6	.. ..	..	
	eF	15 57 52	..	.. ..	..	
„ 2nd	P	18 11 40	3	.. ..	1280	Do.
	S	18 13 55	4	.. ..	..	Do.
	L	18 14 56	7	.. ..	..	
	eF	18 22 30	..	.. ..	..	

Date.	Phase.	Time G.M.T.	Period (Sec.).	Amplitude. (μ) An. Ae.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.				
Aug. 2nd	P	18 23 35	3	.. ..	1216	Slight shock.
	S	18 25 39	5	.. ..	..	Do.
	L	18 26 49	7	.. ..	..	
	F	18 54 19	..	.. ..	..	
„ 2nd	P	22 4 15	1	.. ..	992	Do.
	S	22 6 0	2	.. ..	..	Do.
	L	22 0 45	3	.. ..	..	
	eF	22 19 51	..	.. ..	..	
„ 4th	P	5 43 52	4	.. ..	560	Do.
	S	5 44 52	5	.. ..	..	Do.
	L	5 45 15	9	.. ..	..	
	F	6 4 37	..	.. ..	..	
„ 7th	P	2 21 43	5	.. ..	6400	Do.
	S	2 29 35	8	.. ..	..	Moderate shock.
	L	2 41 20	10	.. ..	..	
	M	2 44 25	..	36 ..	..	
	F	Uncertain	..	.. ..	..	
„ 8th	P	1 15 36	3	.. ..	2400	Milne shaw seismograph (A-N).
	S	1 19 36	5	.. ..	..	Slight shock.
	L	1 22 6	7	.. ..	..	
	F	Uncertain	..	.. ..	..	
„ 8th	P	4 9 14	3	.. ..	2720	Do.
	S	4 13 29	4	.. ..	..	
	L	4 16 51	6	.. ..	..	
	F	Uncertain	..	.. ..	..	
„ 10th	EP	9 21 52	2	.. ..	1760	Do.
	S	9 24 52	3	.. ..	..	
	L	9 26 25	5	.. ..	..	
	F	Uncertain	..	.. ..	..	
„ 10th	P	21 23 33	3	.. ..	1760	
	S	Uncertain	..	.. ..	..	Great shock.
	L	21 28 3	6	.. ..	..	
	M	Uncertain	..	.. ..	..	
	F	Do.	..	.. ..	..	
„ 11th	P	7 9 4	3	.. ..	2880	Do.
	S	7 13 24	4	.. ..	..	Slight shock.
	L	7 17 9	5	.. ..	..	
	F	Uncertain	..	.. ..	4900	Do.

Date.	Phase.	Time G.M.T.	Period (Sec.).	Amplitude. (μ) An. Ae.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.				
Aug. 11th	P	17 30 41	3	.. ..	..	Slight shock.
	S	17 37 28	4	.. ..	..	
	L	17 45 6	7	.. ..	..	
	eF	18 8 8	..	.. ..	..	
„ 12th	P	6 28 6	Uncertain	.. ..	560	Do.
	S	6 29 6	Do.	.. ..	..	Do.
	L	6 29 29	4	.. ..	..	
	F	6 34 29	..	.. ..	..	
„ 13th	P	10 34 46	Uncertain	.. ..	640	Do.
	S	10 36 0	Do.	.. ..	..	Do.
	L	10 36 16	Do.	.. ..	..	
	F	Uncertain	..	.. ..	..	
„ 15th	P	4 4 12	2	.. ..	1760	Milne shaw seismograph (AN) slight s ock.
	S	4 6 19	3	.. ..	..	Slight shock.
	L	4 8 57	4	.. ..	..	
	eF	4 24 49	..	.. ..	..	
„ 16th	P	2 5 42	3	.. ..	1920	Do.
	S	2 8 57	4	.. ..	..	Do.
	L	2 10 42	5	.. ..	..	
	F	Uncertain	..	.. ..	..	
„ 17th	P	17 27 44	3	.. ..	1984	Do.
	S	17 31 7	4	.. ..	..	Do.
	L	17 32 37	5	.. ..	..	
	F	Uncertain	..	.. ..	..	
„ 18th	P	14 27 17	5	.. ..	2880	Do.
	S	14 31 55	7	.. ..	..	Great shock.
	L	14 35 25	9	.. ..	..	
	M	14 37 19	..	180 ..	..	
	F	Uncertain	..	.. ..	..	
„ 24th	P	21 30 49	3	.. ..	1984	Do.
	S	21 43 12	5	.. ..	..	Do.
	L	21 45 10	8	.. ..	..	
	M	21 47 31	..	73 ..	..	
	F	Uncertain	..	.. ..	..	
„ 24th	P	23 34 59	3	.. ..	2080	Do.
	S	23 38 22	4	.. ..	..	Moderate shock.
	L	23 40 36	6	.. ..	..	
	M	23 42 0	..	82 ..	..	
„ 25th	F	0 21 20	..	.. ..	..	

TABLE E 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AN.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.				
Aug. 25th	P	0 36 12	3	.. ..	1920	Milne shaw seismograph (AN) Moderate shock.
	S	0 39 35	5	.. ..	..	Slight shock.
	L	0 41 42	6	.. ..	..	
	eF	0 56 49	..	.. ..	..	
,, 25th	P	3 10 53	3	.. ..	2080	Do.
	S	3 14 28	5	.. ..	..	Slight shock.
	L	3 16 35	7	.. ..	..	
	eF	3 46 7	..	.. ..	..	
,, 25th	P	15 50 4	3	.. ..	2080	Do.
	S	15 53 27	5	.. ..	..	Do.
	L	15 55 27	7	.. ..	..	
	eF	16 19 49	..	.. ..	..	
,, 25th	P	18 57 28	3	.. ..	2080	Do.
	S	19 0 58	5	.. ..	..	Do.
	L	19 3 13	7	.. ..	..	
	eF	19 15 17	..	.. ..	..	
,, 26th	P	19 36 0	2	.. ..	2400	Do.
	S	19 40 0	3	.. ..	..	Do.
	L	19 42 37	4	.. ..	..	
	eF	20 4 17	..	.. ..	..	
,, 27th	P	15 31 38	5	.. ..	2080	Do.
	S	15 35 8	8	.. ..	..	Great shock.
	L	Uncertain	..	.. ..	..	
	M	15 37 49	..	152 ..	..	
	F	Uncertain	..	.. ..	..	
,, 28th	P	0 47 33	3	.. ..	2080	Do.
	S	0 50 41	5	.. ..	..	Moderate shock.
	L	0 53 3	8	.. ..	..	
	M	0 54 41	..	138 ..	..	
	F	1 24 51	..	.. ..	..	
,, 28th	P	8 25 53	4	.. ..	1600	Do.
	S	8 28 36	5	.. ..	..	Slight shock.
	L	8 29 55	9	.. ..	..	
	eF	8 44 49	..	.. ..	..	
,, 28th	P	19 45 39	3	.. ..	2400	Do.
	S	19 49 36	5	.. ..	..	Moderate shock.
	L	19 51 47	9	.. ..	..	
	M	19 52 17	..	45 ..	..	
	F	Uncertain	..	.. ..	..	
1931.		H. M. S.				
Aug. 29th	P	21 31 41	3	.. ..	1600	Milne shaw seismograph (AN) Moderate shock.
	S	21 34 26	4	.. ..	..	Slight shock.
	L	21 33 49	7	.. ..	..	
	eF	22 0 29	..	.. ..	..	
,, 29th	P	1 56 57	3	.. ..	1280	Do.
	S	1 59 15	4	.. ..	..	Do.
	L	2 0 35	6	.. ..	..	
	F	Uncertain	..	.. ..	..	
,, 29th	P	5 58 23	2	.. ..	320	Do.
	S	5 59 5	3	.. ..	..	Do.
	L	Uncertain	..	.. ..	..	
	F	Do.	..	.. ..	..	
,, 29th	P	13 31 24	3	.. ..	1920	Do.
	S	13 35 6	5	.. ..	..	Do.
	L	13 36 59	7	.. ..	..	
	eF	13 56 39	..	.. ..	..	
,, 29th	P	19 59 42	3	.. ..	1920	Do.
	S	20 2 48	4	.. ..	..	Do.
	L	20 4 54	6	.. ..	..	
	F	Uncertain	..	.. ..	..	
,, 29th	P	20 42 49	3	.. ..	1280	Do.
	S	20 44 59	5	.. ..	..	Do.
	L	Uncertain	..	.. ..	..	
	F	Do.	..	.. ..	..	
,, 30th	P	5 52 1	3	.. ..	1984	Do.
	S	5 55 30	4	.. ..	..	Do.
	L	5 57 23	6	.. ..	..	
	F	Uncertain	..	.. ..	..	
,, 30th	P	9 26 39	3	.. ..	1984	Do.
	S	9 30 19	4	.. ..	..	Do.
	L	9 31 54	6	.. ..	..	
	F	Uncertain	..	..	..	
,, 30th	P	22 7 31	3	.. ..	1984	Do.
	S	22 11 34	4	.. ..	..	Do.
	L	22 13 19	6	.. ..	..	
	F	Uncertain				
,, 31st	P	0 38 57	3	.. ..	2240	Do.
	S	0 42 51	4	.. ..	..	
	L	0 44 38	6	.. ..	..	
	F	..	..	.. ..	..	
Aug. 31st	eF	5 24 13	3	.. ..	1984	Milne shaw seismograph (AN) slight shock.
	S	5 27 46	5	.. ..	..	
	L	5 29 49	7	.. ..	..	
	F	Uncertain	..	.. ..	..	
Sept. 2nd	P	6 27 4	3	.. ..	800	Do.
	S	6 28 27	4	.. ..	..	Do.
	L	6 29 6	6	.. ..	..	
	F	Uncertain	..	.. ..	..	
,, 3rd	P	14 54 29	3	.. ..	2240	Do.
	S	14 58 11	5	.. ..	..	Do.
	L	15 0 41	7	.. ..	..	
	F	Uncertain	..	.. ..	..	
,, 3rd	P	17 15 31	3	.. ..	2240	Do.
	S	17 19 11	4	.. ..	..	Do
	L	17 21 55	5	.. ..	..	
	eF	17 51 49	..	.. ..	..	
,, 3rd	P	17 55 45	3	.. ..	2320	Do.
	S	17 59 27	5	.. ..	..	Do.
	L	18 1 53	7	.. ..	..	
	F	Uncertain	..	.. ..	..	
,, 6th	P	8 30 55	3	.. ..	1920	Do.
	S	8 34 18	4	.. ..	..	Do.
	L	8 35 49	6	.. ..	..	
	eF	8 51 59	..	.. ..	..	
,, 6th	P	5 40 16	3	.. ..	1280	Do.
	S	5 42 16	5	.. ..	..	Do.
	L	5 43 18	7	.. ..	..	
	F	Uncertain	..	.. ..	..	
,, 6th	P	14 40 51	3	.. ..	1280	Do.
	S	14 42 54	5	.. ..	..	Do.
	L	14 43 46	7	.. ..	..	
	F	Uncertain	..	.. ..	..	
,, 7th	P	21 23 50	3	.. ..	1120	Do.
	S	21 25 50	6	.. ..	..	Do.
	L	21 26 35	8	.. ..	..	
	F	Uncertain	..	.. ..	..	
,, 8th	P	16 20 12	3	.. ..	1120	Do.
	S	16 22 20	4	.. ..	..	Do.
	L	16 22 57	6	.. ..	..	
	eF	16 42 49	..	.. ..	..	

TABLE E 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	Amplitude (μ) AE.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.					
Sept. 8th	P	19 17 43	3	.. ..	4920	Milne shaw seismograph (AN) slight shock.	
	S	19 24.32	5	.. ..	..		
	L	19 33 4	9	.. ..	..		
	F	20 4 59	..	.. ..	..		
,, 9th	P	20 47 32	4	.. ..	2880	Do.	
	S	20 51 59	5	.. ..	..	Moderate shock.	
	L	20 55 25	8	.. ..	..		
	M	20 58 15	..	30 ..	..		
	F	22 34 9	..	.. ..	..		
,, 10th	P	22 33 18	4	.. ..	1760	Do.	
	S	22 36 18	5	.. ..	..	slight shock.	
	L	22 37 53	6	.. ..	..		
	F	22 50 7	...	... ..	..		
,, 10th	P	20 46 25	3	.. ..	1760	Do.	
	S	20 49 25	5	.. ..	..		
	L	20 50 55	6	.. ..	..		
	eF	20 57 59	..	.. ..	..		
,, 11th	P	16 29.21	3	.. ..	1760	Do.	
	S	16 32.28	4	... ..	..	Do.	
	L	16 33 51	6	.. ..	..		
	eF	16 49 19	..	.. ..	..		
,, 12th	P	12 36 11	3	.. ..	1920	Do.	
	S	12 39 26	4	.. ..	..	Do.	
	L	12 41 19	5	.. ..	..		
	F	Uncertain	..	.. ..	..		
,, 12th	P	17 39 20	2	.. ..	1120	Do.	
	S	17 41 28	3	.. ..	..	Do.	
	L	17 42 5	5	.. ..	..		
	F	17 53 7	..	.. ..	..		
,, 14th	P	3 38 33	3	.. ..	1760	Do.	
	S	3 41 33	4	.. ..	..	Do.	
	L	3 42 33	6	.. ..	..		
	F	4 0 1	..	.. ..	..		
,, 16th	P	10 46 24	3	.. ..	1960	Do.	
	S	10 48 32	4	.. ..	..	Do.	
	L	10 49 32	6	.. ..	..		
	F	10 59 47	..	.. ..	..		

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	Amplitude (μ) AE.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.					
Sept. 16th	P	12 51 33	4	.. ..	5120	Milne shaw seismograph (AN) slight shock.	
	S	12 58 13	6	.. ..	..		
	L	13 6 27	9	.. ..	..		
	eF	13 33 19	..	.. ..	..		
,, 17th	P	2 27 31	3	.. ..	1440	Do.	
	S	2 30 1	5	.. ..	..	Do.	
	L	2 31 7	7	.. ..	..		
	F	2 50 59	..	.. ..	..		
,, 18th	P	19 5 49	4	.. ..	1280	Do.	
	S	19 8 10	5	.. ..	..	Do.	
	L	19 9 12	7	.. ..	..		
	F	19 24 12	..	.. ..	..		
,, 20th	P	15 32 14	3	.. ..	1760	Do.	
	S	15 35 22	4	.. ..	..	Do.	
	L	15 36 48	6	.. ..	..		
	F	Uncertain	..	.. ..	..		
,, 20th	P	23 55 3	4	.. ..	1120	Do.	
	S	23 57 3	5	.. ..	..	Do.	
	L	23 57 43	7	.. ..	..		
	F	0 24 2	..	.. ..	..		
,, 21st	P	2 28 39	4	.. ..	4800	Do.	
	S	2 35 11	5	.. ..	..	Moderate shock.	
	L	2 42 56	6	.. ..	..		
	M	2 47 17	..	100 ..	..		
	F	3 50 59	..	.. ..	..		
,, 21st	P	10 32 25	5	.. ..	2720	Do.	
	S	10 36 40	7	.. ..	..	Great shock.	
	L	10 39 31	15	.. ..	..		
	M	10 42 37	..	120 ..	..		
	F	11 22 49	..	.. ..	..		
,, 21st	P	13 50 52	3	.. ..	6240	Do.	
	S	13 58 37	5	.. ..	..	Slight shock.	
	L	14 10 50	7	.. ..	..		
	F	Uncertain	..	.. ..	..		
,, 23rd	P	2 13 45	3	.. ..	1600	Do.	
	S	2 16 29	4	.. ..	..	Do.	
	L	2 17 45	7	.. ..	..		
	F	Uncertain	..	.. ..	..		

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	Amplitude (μ) AE.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.					
Sept. 25th	P	6 6 3	7	.. ..	3520	Milne shaw Seismograph (AN).	
	S	6 11 21	11	.. ..	..	Great shock.	
	L	6 16 3	20	.. ..	..		
	M¹	6 18 3	..	698 ..	..		
	M²	6 21 13	..	702 ..	..		
	F	9 46 13	..	.. ..	..		
,, 25th	P	21 38 9	3	.. ..	2240	Do.	
	S	21 42 58	5	.. ..	..	Slight shock.	
	L	21 45 17	7	.. ..	..		
	F	Uncertain	..	.. ..	..		
,, 26th	P	12 36 0	3	.. ..	1440	Do.	
	S	12 38 28	5	.. ..	..	Do.	
	L	12 39 24	7	.. ..	..		
	F	Uncertain	..	.. ..	..		
,, 26th	P	20 22 37	5	.. ..	14720	Do.	
	S	20 36.15	8	.. ..	..	Do.	
	L	21 16 10	13	.. ..	..		
	F	22 22 51	..	.. ..	..		
,, 28th	P	17 24 27	3	.. ..	3200	Do.	
	S	17 29 27	5	.. ..	..	Do.	
	L	17 32 51	7	.. ..	..		
	F	18 12 55	..	.. ..	..		
,, 29th	P	5 22.38	3	.. ..	4000	Do.	
	S	5 28 35	5	.. ..	..	Do.	
	L	5 35 0	7	.. ..	..		
	F	6 8 6	..	.. ..	..		
,, 29th	P	23 27 23	3	.. ..	2560	Do.	
	S	23 31 34	5	.. ..	..	Do.	
	L	23 33 42	7	.. ..	..		
	F	Uncertain	..	.. ..	..		
,, 30th	P	11 19 20	3	.. ..	2240	Do.	
	S	11 23 0	5	.. ..	..	Do.	
	L	11 25 8	7	.. ..	..		
	F	Uncertain	..	.. ..	..		
,, 30th	P	18 3·26	3	.. ..	1280	Do	
	S	18 5·46	5	.. ..	..	Do.	
	L	18 6·16	7	.. ..	..		
	F	Uncertain	..	.. ..	..		

TABLE E 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Amplitude (μ) Ae.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.					
Oct. 2nd	P	14 19 38	3	.. ..		1760	Milne shaw seismograph (AN) Slight shock.
	S	14 22 48	5	.. ..	..		
	L	14 24 0	7	.. ..	..		
	F	14 55 1	..	.. ..	..		
,, 3rd	P	10 42 40	2	.. ..		1280	Do.
	S	10 45 4	3	.. ..	..		Moderate shock.
	L	10 45 59	5	.. ..	..		
	M	10 48 29	..	36 ..	..		
	F	Uncertain	..	.. ..	..		
,, 3rd	P	19 25 40	7	.. ..		7840	Do.
		10 35 2	10	.. ..	..		Great shock.
	L	19 50 12	20	.. ..	..		
	M	19 50 19	..	278 ..	..		
	F	Uncertain	..	.. ..	..		
,, 4th	P	11 26 10	2	.. ..		1280	Do.
	S	11 28 30	3	.. ..	..		Slight shock.
	L	11 29 26	7	.. ..	..		
	F	Uncertain	..	.. ..	..		Do.
,, 5th	P	22 35 52	3	.. ..		2160	Moderate shock.
	S	22 39 29	5	.. ..	..		
	L	22 41 28	8	.. ..	..		
	M	22 42 35	..	88 ..	..		
	F	Uncertain	..	.. ..	..		
,, 9th	P	15 34 4	5	.. ..		640	Do.
	S	15 35 12	6	.. ..	..		Slight shock.
	L	15 35 41	8	.. ..	..		
	F	16 3 44	..	.. ..	..		
,, 10th	P	0 31 44	6	.. ..		7840	Do.
	S	0 40 34	8	.. ..	..		Great shock.
	L	0 56 44	18	.. ..	..		
	M	0 57 46	..	200 ..	..		
	F	Uncertain	..	.. ..	..		
,, 10th	P	16 54 14	6	.. ..		4040	Do.
	S	17 0 37	8	.. ..	..		Slight shock.
	L	17 7 58	13	.. ..	..		
	F	18 0 58	..	.. ..	..		
,, 11th	P	0 37 35	2	.. ..		648	Do.
	S	0 38 42	4	.. ..	..		Do.
	L	Uncertain	..	.. ..	..		
	F	Do.	..	.. ..	..		

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Amplitude (μ) Ae.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.					
Oct .16th	P	13 32 2	3	.. ..		800	Milne shaw seismograph (AN) slight shock.
	S	13 33 25	5	.. ..	..		
	L	13 34 2	9	.. ..	..		
	F	13 57 32	..	.. ..	..	3520	Do.
,, 18th	eP	4 47 57	2	.. ..	..		Do.
	S	4 53 12	4	.. ..	..		
	L	4 58 9	7	.. ..	..		
	F	Uncertain	..	.. ..	..		
,, 18th	eP	7 8 37	Uncertain	.. ..		1120	Do.
	S	7 10 37	6	.. ..	..		Do.
	L	7 11 32	9	.. ..	..		
	F	Uncertain	..	.. ..	..		
,, 24th	P	3 0 29	3	.. ..		2720	Do.
	S	3 4 35	5	.. ..	..		Do.
	L	3 9 45	6	.. ..	..		
	F	Uncertain	..	.. ..	..		
,, 24th	P	4 46 8	3	.. ..		1440	Do.
	S	4 48 37	6	.. ..	..		Do.
	L	4 49 58	8	.. ..	..		
	F	Uncertain	..	.. ..	..		
,, 24th	P	11 46 29	3	.. ..		3200	Do.
	S	11 51 29	5	.. ..	..		Do.
	L	11 55 43	7	.. ..	..		
	F	Uncertain	..	.. ..	..		
,, 26th	P	12 8 46	2	.. ..		3680	Do.
	S	12 9 21	4	.. ..	..		Do.
	L	12 13 9	6	.. ..	..		
	F	Uncertain	..	.. ..	..		
,, 27th	P	19 2 39	3	.. ..		1440	Do.
	S	19 5 5	5	.. ..	..		Do.
	L	19 6 16	6	.. ..	..		
	F	19 13 56	..	.. ..	..		
,, 27th	P	21 1 49	Uncertain	.. ..		800	Do.
	S	21 3 12	2	.. ..	..		Do.
	L	21 3 53	3	.. ..	..		
	F	21 25 18	..	.. ..	..		
,, 28th	P	5 39 11	4	.. ..		3680	Do.
	S	5 44 39	8	.. ..	..		Do.
	L	5 49 26	14	.. ..	..		
	F	Uncertain	..	.. ..	..		

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Amplitude (μ) Ae.	Δ Distance (Km.).	Remarks.
1931.		H. M. S.					
Oct. 29th	P	7 27 8	2	.. ..		1600	Milne shaw seismograph (AN) slight shock.
	S	7 29 48	4	.. ..	..		
	L	7 30 58	7	.. ..	..		
	F	Uncertain	..	.. ..	..		
Nov. 1st	P	19 1 8	2	.. ..		4000	Do.
	S	19 6 40	3	.. ..	..		Do.
	L	19 12 40	5	.. ..	..		
	M	19 19 10	..	.. ..	..		
	F	20 18 40	..	.. ..	..		
,, 2nd	P	10 10 55	3	.. ..		4480	Do.
	S	10 17 10	5	.. ..	..		Great shock.
	L	10 24 17	9	.. ..	..		
	M	10 30 47	..	316 ..	..		
	F	14 12 17	..	.. ..	..		
,, 2nd	P	17 13 52	4	.. ..		6720	Do.
	S	17 22 12	6	.. ..	..		Slight shock.
	L	17 35 37	9	.. ..	..		
	F	19 47 22	..	.. ..	..		
,, 3rd	P	16 29 8	3	.. ..		4640	Do.
	S	16 35 33	5	.. ..	..		
	L	Uncertain	..	.. ..	..		
	F	18 33 16	..	.. ..	..	1440	Do.
,, 4th	P	15 16 24	2	.. ..			Do.
	S	15 28 47	4	.. ..	..		
	L	15 30 1	5	.. ..	..		
	F	15 53 11	..	.. ..	..		
,, 5th	P	12 24 8	3	.. ..		2720	Do.
	S	12 28 30	5	.. ..	..		Moderate shock.
	L	12 31 16	8	.. ..	..		
	M	Uncertain	..	.. ..	..		
	F	13 56 15	..	.. ..	..		
,, 10th	P	6 44 16	2	.. ..		2400	Do.
	S	6 48 16	3	.. ..	..		Slight shock.
	L	6 50 31	5	.. ..	..		
	F	Uncertain	..	.. ..	..		
,, 13th	P	1 11 14	Uncertain	.. ..		480	Do.
	S	1 11 59	3	.. ..	..		Moderate shock.
	L	1 12 14	4	.. ..	..		
	M	1 12 34	..	84 ..	..		
	F	Uncertain	..	.. ..	..		

TABLE E 3 –*concld.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	AMPLITUDE. (μ) AN.	AMPLITUDE. (μ) AE.	Δ Distance (Km.).	REMARKS.
1931.		H. M. S.					
Nov. 18th	P	7 11 3	Uncertain	.. ..		480	Milne shaw seismograph (AN) slight shock.
	S	7 11 48	2	.. ..	..		Slight shock.
	L	7 12 3	4	.. ..	..		
	F	Uncertain	..	.. ..	..		
,, 15th	P	4 59 38	3	.. ..	800		Do.
	S	5 0 53	4	.. ..	..		Do.
	L	5 1 38	8	.. ..	..		
	eF	5 33 38	..	.. ..	..		
,, 20th	P	14 28 28	3	.. ..	6400		Do.
	S	14 36 43	5	.. ..	..		Do.
	L	14 48 9	9	.. ..	..		
	F	16 9 24	..	.. ..	..		
,, 29th	P	19 59 50	3	.. ..	800		Do.
	S	20 1 23	5	.. ..	..		Do.
	L	20 1 57	7	.. ..	..		
	eF	20 24 27	..	.. ..	..		
,, 30th	P	17 3 34	2	.. ..	560		Do.
	S	17 4 31	3	.. ..	..		Do.
	L	17 4 49	4	.. ..	..		
	F	17 32 29	..	.. ..	..		

Date.	Phase.	Time G. M. T.	Period (Sec.)	AMPLITUDE. (μ) AN.	AMPLITUDE. (μ) AE.	Δ Distance (Km.).	REMARKS.
1931.		H. M. S.					
Dec. 6th	P	23 4 49	2	.. ..		1920	Milne shaw seismograph (AN) slight shock.
	S	23 8 9	4	.. ..		..	
	L	23 10 2	8	.. ..		..	
	eF	0 1 2	..	.. ..		..	
,, 8th	P	20 0 46	3	.. ..		800	Do.
	S	20 2 9	Uncertain	.. ..		..	Do.
	L	20 2 43	6	.. ..		..	
	F	Uncertain	..	.. ..		..	
,, 10th	P	15 18 32	Uncertain	.. ..		400	Do.
	S	15 19 13	,,	.. ..		..	Do.
	L	15 19 22	3	.. ..		..	
	F	15 39 22	..	.. ..		..	
,, 18th	P	9 55 54	4	.. ..		3520	Do.
	S	10 1 9	6	.. ..		..	Do.
	L	10 10 54	8	.. ..		..	
	F	Uncertain	..	.. ..		..	
,, 21st	P	18 43 48	2	.. ..		560	Do.
	S	18 44 41	3	.. ..		..	Do.
	L	18 45 3	4	.. ..		..	
	F	18 51 15	..	.. ..		..	

Date.	Phase.	Time G. M. T.	Period (Sec.)	AMPLITUDE. (μ) AN.	AMPLITUDE. (μ) AE.	Δ Distance (Km.).	REMARKS.
1931.		H. M. S.					
Dec. 22nd	P	13 21 23	Uncertain	.. ..		3040	Milne shaw seismograph (AN) slight shock.
	S	13 26 5	5	.. ..		..	
	L	13 29 35	8	.. ..		..	
	F	Uncertain	..	.. ..		..	
,, 24th	P	23 7 53	3	.. ..		4320	Do.
	S	23 14 6	4	.. ..		..	Do.
	L	23 19 58	6	.. ..		..	
	eF	23 33 18	..	.. ..		..	
,, 25th	P	3 15 54	2	.. ..		4160	Do.
	S	3 21 50	3	.. ..		..	Do.
	L	3 27 43	5	.. ..		..	
	eF	4 10 54	..	.. ..		..	
,, 27th	P	2 1 40	6	.. ..		1600	Do.
	S	2 4 24	8	.. ..		..	Do.
	L	2 5 40	12	.. ..		..	
	F	Uncertain	..	.. ..		..	
,, 31st	P	0 31 44	4	.. ..		6400	Do.
	S	0 39 44	5	.. ..		..	Do.
	L	0 52 29	7	.. ..		..	
	F	Uncertain	..	.. ..		..	

S. N. SEN,
Meteorologist,
Calcutta.

STATION—KODAIKANAL.

ϕ=10° 13′ 50″; λ=77° 28′ 00″; h=2343 m. *Subsoil*—Rock.

Apparatus—Milne's Horizontal Pendulum Seismograph.

TABLE E 4.

AE	V	To	C	$\frac{V}{To^2}$	Months.
	9·76	19·0	1	2·5	January & June.
	9·76	18·8	1	2·5	February.
	9·76	18·8	1	2·6	March.
	9·76	18·6	1	2·5	April.
	9·76	18·9	1	2·5	May.
	9·76	18·7	1	2·5	July.
	9·76	18·0	1	3·0	August.
	9·76	17·7	1	2·3	September.
	9·76	17·5	1	2·8	October.
	9·76	17·9	1	2·8	November & December.

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AE.	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AE.	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AE.	Remarks.
1931.		H. M. S.				1931.		H. M. S.				1931.		H. M. S.			
Jan. 2nd	eP	0 13 42	..	..		Jan. 18th	eP	13 28 54	..	..		Feb. 2nd 3rd	eP	23 3 6	..	..	
	F	0 39 54	..	..	Widening of line.		F	13 48 48	..	..			iL	23 17 30	..	..	
													M	23 44 48	..	..	
,, 2nd	eP	10 31 42	..	..		,, 19th	eP	12 43 42	..	..			F	2 24 24	..	1040	
	eL	11 13 6	..	..			eL	12 51 30	..	..							
	M	11 17 30	..	50			M	12 56 24	..	..		,, 6th	eP	2 30 00	..	..	
	F	11 57 6	..	..			F	13 3 00	..	50			eL	2 43 54	..	..	
													M	2 48 06	..	..	
,, 12th	eP	21 18 48?	..	..	Neither hour mark nor half-hour marks: measured approximately.	,, 19th	eP	16 40 12	..	..			F	2 56 36	..	50	
							F	16 46 12	..	..	Widening of line.						
						,, 20th	eP	9 37 54	..	..		,, 10th	eP	1 32 18	..	..	
	eL	21 20 6?	..	..			F	9 52 00	..	..	Widening of line.		F	1 59 42	..	..	Widening of line.
	M	21 26 00?	..	40													
	F	21 48 24?	..	..		,, 24th	eP	13 51 24	..	..		,, 10th	eP	3 17 24	..	..	
							eL	14 6 48	..	..			F	3 52 12	..	..	Widening of line.
,, 15th	eP	2 23 00	..	..			M	14 10 30	..	..							
	iL	3 7 24	..	..			F	14 49 48	..	90		,, 10th	eP	6 16 18	..	..	
	M	3 29 42	..	520	Instrument examined at the time.								iL	6 47 24	..	..	
													M	6 52 48	..	..	
,, 15th	eP	21 24 48	..	..		,, 24th	eP	17 56 36	..	..			F	10 26 06	..	?	Beyond the range of the instrument.
	F	21 57 54	..	..	Widening of line.		F	18 23 12	..	..	Widening of line.						
,, 15th 16th	eP	23 3 00	..	..		,, 27th	iL	20 14 6	..	..		,, 11th	eP	17 59 00	..	..	
	F	0 31 24	..	..	Widening of line.		M	20 29 24	..	..			F	18 14 00	..	..	Widening of line.
							F	23 27 48	..	930	No P.T.'s.						
,, 16th	eP	20 43 48	..	..													
	F	21 23 48	..	..	Widening of line.	,, 28th 29th	eP	21 34 00	..	..		,, 12th	eP	5 55 12	..	..	
							iL	21 57 42	..	..			iL	6 00 15	..	..	
,, 17th	eP	3 57 24	..	..			M	22 4 30	..	..			M	6 02 48	..	..	
	F	4 35 48	..	?			F	24 10 24	..	130			F	6 30 42	..	400	

TABLE E 5—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) A.E.	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) A.E.	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) A.E.	Remarks.
		H. M. S.						H. M. S.				1931.		H. M. S.			
1931.						1931.						April 3rd	eP	22 25 54	..	..	
Feb. 13th	eP	0 55 00	..	..		Mar. 9th	eP	2 55 18	..	..			F	22 34 36	..	..	Widening of line.
	eL	2 9 30	..	..			eL	3 21 24	..	..							
	M	2 29 36	..	..			M	3 42 00	..	..		,, 4-5th	lP	23 49 06	..	..	
	F	4 41 48	..	1200			F	6 38 24	..	1060			F	0 30 34	..	..	Widening of line.
						,, 11th	eP	12 39 42	..	..							
,, 14th	eP	14 5 00	..	..			lL	12 59 12	..	..		,, 6th	eP	7 01 30	..	..	
	lL	14 10 36	..	..			M	13 05 54	..	..			eL	7 33 06	..	..	
	M	14 11 54	..	..			F	15 16 54	..	150			M	7 44 18	..	..	
	F	15 51 36	..	930									F	8 38 42	..	80	
,, 16th	eP	19 12 18	..	..		,, 12th	eP	11 02 12	..	..							
	F	19 47 00	..	..	Widening of line.		eL	11 16 00	..	..		,, 6th	eP	9 22 00	..	..	
							M	11 20 54	..	..			F	9 34 36	..	..	Widening of line.
,, 19th	eP	17 46 42	..	..			F	11 40 24	..	60		,, 6th	eP	12 32 36	..	..	
	eL	17 51 36	..	..									F	12 38 48	..	..	Widening of line.
	M	17 58 06	..	..		,, 12 h	eP	19 43 18	..	..							
	F	19 19 30	..	500			F	19 50 18	..	..	Widening of line.	,, 7th	eP	8 17 36	..	..	
						,, 12th	eP	21 36 30	..	..			F	8 27 00	..	..	Widening of line.
,, 20th	eP	5 50 24	..	..			F	21 42 54	..	..	Widening of line.	,, 8th	eP	19 39 18	..	..	
	eL	5 53 48	..	..									F	19 50 06	..	..	Widening of line.
	M	5 59 24	..	..		,, 18th	eP	8 22 36	..	..							
	F	6 42 30	..	80			eL	9 14 18	..	..		,, 12th	eP	2 28 42	..	..	
							M	9 26 12	..	..			eL	2 47 30	..	..	
,, 27th	eP	9 53 06	..	..			F	11 00 48	..	350			M	2 57 48	..	..	
	eL	10 03 06	..	..									F	3 21 12	..	40	
	M	10 08 12	..	..		,, 18th	eP	20 22 12	..	..							
	F	10 41 48	..	80			eL	20 29 18	..	..		,, 24th	lP	17 34 54	..	..	
							M	20 45 54	..	..			eL	18 14 54	..	..	
Mar. 2nd	eL	2 42 24	..	..			F	21 51 30	..	200			M	18 20 00	..	..	
	M	2 46 00	..	..									F	20 10 18	..	80	
		3 18 00	..	..		,, 19th	eP	6 33 18	..	..		,, 27th	lP	17 04 48	..	..	
	F	3 45 06	..	40	No P. T's.		lL	6 46 06	..	..			lL	17 08 06	..	..	
							M	6 51 42	..	..			M	17 17 00	..	..	
							F	7 44 30	..	180			F	18 07 18	..	100	
,, 5th	eP	18 03 30	..	..													
	eL	18 06 00	..	..		,, 28th	lL	12 47 24	..	..							
	M	18 07 36	..	..			M	13 12 18	..	..		May 17th	eP	18 05 12	..	..	
	F	18 33 06	..	70			F	15 01 48	..	240	No P. T's.		F	13 10 06	..	..	Widening of line.
,, 7th	eP	10 23 12	..	..		April 1st	eP	13 25 18	..	..							
	F	11 03 48	..	..	Widening of line.		F	13 40 54	..	..	Widening of line.	,, 20th	eP	2 46 48	..	..	
													eL	3 03 30	..	..	
,, 8th	eP	2 08 54	..	..		,, 1st	eP	17 27 48	..	..			M	3 16 30	..	..	
	eL	2 23 30	..	..			F	18 10 06	..	..	Widening of line.		F	4 40 54	..	190	
	M	2 28 54	..	..								,, 20th	eP	23 09 30	..	..	
	F	3 11 24	..	90		,, 3rd	eP	3 23 00	..	..			F	23 37 36	..	..	Widening of line.
							F	3 32 48	..	..	Widening of line.						
,, 8th	eP	12 47 30	..	..		,, 3rd	eP	6 34 42	..	..		,, 24th	P	0 35 06	..	..	
	F	12 59 12	..	..	Widening of line.		F	6 43 42	..	..	Widening of line.		F	1 00 48	..	..	Widening of line.

TABLE E 5—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AE.	Remarks.
		H. M. S.			
1931.					
June 9th	eP	14 58 30	..	..	
	F	15 15 36	..	..	Widening of line.
,, 9th	eP	16 58 30	..	..	
	F	17 23 48	..	..	Widening of line.
,, 18th	eP	13 10 42	..	..	
	iL	13 13 18	..	..	
	M	13 13 36	..	..	
	F	13 23 42	..	100	
,, 23rd	eP	6 54 42	..	..	
	F	7 06 06	..	..	Widening of line.
July 12th	eP	16 59 30	..	..	
	F	17 23 12	..	..	Widening of line.
,, 15th	iL	17 04 36	..	..	
	M	17 05 54	..	..	
	F	17 23 48	..	140	No P. T's.
,, 18th	eP	11 59 54	..	..	
	eL	12 09 42	..	..	
	M	12 11 48	..	..	
	F	12 39 06	..	40	
Aug. 1st	eP	19 56 36	..	..	
	F	20 07 54	..	..	Widening of line.
,, 2nd	eP	18 26 12	..	..	
	F	18 37 00	..	..	Widening of line.
,, 8th	eL	4 15 12	..	..	
	M	4 18 00	..	..	
	F	4 27 06	..	40	No P. T's.
,, 10th	eP	10 26 18	..	..	
	F	10 45 54	..	..	Widening of line.
,, 10-11th	eP	21 26 24	..	..	
	eL	21 30 48	..	..	
	M	?	..	..	
	F	1 31 18	..	?	
,, 13th	eP	22 34 06	..	..	
	F	23 40 18	..	..	Several widening s of the line.
,, 18th	iP	14 34 42	..	..	
	iL	14 41 24	..	..	
	M	14 45 30	..	..	
	F	17 10 00	..	1330	
1931.					
Aug. 24th	iP	21 40 30	..	..	
	iL	21 44 06	..	..	
	M	21 47 54	..	..	
	F	23 59 18	..	1230	
,, 25th	eP	0 43 18	..	..	
	F	1 11 30	..	..	Widening of line.
,, 25th	eP	3 09 36	..	..	
	F	3 32 12	..	..	Widening of line.
,, 27th	iP	15 32 24	..	..	
	iL	15 36 30	..	..	Boom was thrown t one side and stuck there for some hours.
,, 28th	eL	0 48 24	..	..	
	M	0 51 12	..	..	
	F	1 00 54	..	40	No P. T's.
,, 28th	P	19 50 54	..	..	
	F	20 01 00	..	..	Widening of line.
Sept. 3rd	eP	17 23 36	..	..	
	F	17 29 42	..	..	Widening of line.
,, 6th	eP	14 43 36	..	..	
	F	14 56 12	..	..	Widening of line.
,, 9th	iL	20 57 24	..	..	
	M	21 14 30	..	..	
	F	22 01 18	..	50	No P. T's.
,, 21st	eP	2 38 42	..	..	
	eL	2 55 36	..	..	
	M	2 58 30	..	..	
	F	3 55 06	..	60	
,, 21st	eP	10 40 12	..	..	
	eL	10 47 00	..	..	
	M	10 50 06	..	..	
	F	12 09 54	..	70	
,, 25th	iP	6 06 24	..	..	
	eL	6 10 00	..	..	
	M	?	..	..	
	F	9 23 48	..	?	Boom was thrown to one side where it stuck for some time.
1931.					
Sep. 25th	eP	21 45 06	..	..	
	eL	21 46 54	..	..	
	M	21 18 24	..	..	
	F	22 09 48	..	40	
,, 26th	eP	21 39 42	..	..	
	F	22 05 00	..	..	Widening of line.
,, 27th	eP	0 38 54	..	..	
	F	0 44 06	..	..	Widening of line.
,, 28th	eP	17 31 00	..	..	
	eL	17 36 36	..	..	
	M	17 38 12	..	..	
	F	17 52 42	..	50	
,, 29th	eP	9 57 36	..	..	
	F	10 11 42	..	..	Widening of line.
,, 29th	eP	11 26 42	..	..	
	F	11 37 12	..	..	Widening of line.
Oct. 3rd	eP	10 47 06	..	..	
	F	10 58 06	..	..	Widening of line.
,, 3rd	eP	10 26 42	..	..	
	iL	19 37 12	..	..	
	M	20 16 54	..	..	
	F	?	..	760	
,, 3rd	eP	?	..	..	
	iL	22 52 06	..	..	
	M	22 57 48	..	..	
	F	?	..	180	Overlapping.
,, 3-4th	eP	?	..	..	
	iL	23 39 30	..	..	
	M	23 50 18	..	..	
	F	2 22 48	..	200	
,, 6th	eL	22 41 24	..	..	
	M	22 48 12	..	..	
	F	23 06 54	..	50	No P. T's.
,, 9th	eP	6 11 30	..	..	
	F	6 28 00	..	..	Widening of line.
,, 10th	eP	0 32 48	..	..	
	iL	0 43 18	..	..	
	M	1 19 30	..	..	
	F	5 18 54	..	340	

TABLE E 5—*concld.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AE.	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AE.	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude. (μ) AE.	Remarks.
1931.		H. M. S.				1931.		H. M. S.				1931.		H. M. S.			
Oct. 10th	iL	17 15 54	..	..		Oct. 18th	eP	4 48 30	..	..		Nov. 2nd	iP	10 17 06	..	..	
	M	17 27 00	..	..			F	5 55 24	..	..	Several widenings of the line.		iL	10 19 36	..	..	
	F	18 04 24	..	80	No P. T's.								M	10 42 24	..	..	
						,, 26th	eP	15 10 24	..	..			F	12 27 12	..	990	
,, 12th	eP	14 19 48	..	..			F	15 18 42	..	..	Widening of line.	,, 5th	eP	12 35 36	..	..	
	F	14 29 42	..	..	Widening of line.								iL	12 41 00	..	..	
						,, 28th	eP	5 49 42	..	..			M	12 48 18	..	..	
							eL	5 59 12	..	..			F	13 23 18	..	160	
18th	eP	1 02 18	..	..			M	6 02 48	..	..							
	F	1 06 42	..	..	Widening of line.		F	6 25 54	..	40		Dec. 18th	iP	10 02 36	..	..	
													eL	10 03 36	..	..	
18th	eP	1 32 30	..	..		Nov. 1st	eP	19 15 06	..	..			M	10 05 36	..	..	
	eL	1 35 06	..	..			eL	19 32 36	..	..			F	10 51 18	..	130	
	M	1 37 36	..	..			M	19 35 24	..	..		,, 25th	P	3 46 42	..	..	
	F	0 48 06	..	40			F	19 47 12	..	50			F	4 10 48	..	..	Widening of line.

T. ROYDS,

Director, Madras and Kodaikanal Observatories.

The following table contains a list of earthquakes that were reported by voluntary observers from various stations:—

TABLE E-5.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity (Rossi-Forel scale).	No. of shocks.	REMARKS.
	1931.	H. M.	Sec.			
Peshawar	Jan. 7	3 52	12	5	1	
Drosh	,, 7	3 54	12	5	1	
Do.	,, 10	14 54	15	6	1	
Do.	,, 17	8 20	19	6	2	
Rangpur	,, 18	13 16	20	5	1	
Gauhati (Assam)	,, 18	13 13	about 35	7	2	
Peshawar	,, 20	9 31	95	6	2	*
Cherat	,, 20	9 27	nearly 2	6	1	
Srinagar (Kashmir)	,, 20	9 35	about 2	8	1	
Drosh	,, 20	9 30	40	8	2	
Sonamarg	,, 20	9 41	15	7	2	
Gurez (Kashmir)	,, 20	9 36	47	5	3	
Dras	,, 20	9 30	7	5	1	
Skardu	,, 20	9 20	5-6	6	2	
Myitkyina	,, 27	21 16	65	5	2	
		21 46	8			
Rangpur	Feb. 7	15 02	6	4	1	
Cherrapunji	,, 7	15 07	30	4	1	
Gauhati (Assam)	,, 7	15 05	about 40	7	2	
Bushire	,, 9	3 07	about 30	7	1	
Rangpur	,, 9	9 40	3	5	1	
Skardu	,, 11	16 05	7-8	6	1	
Akyab	,, 26	6 48	about 2	4	1	
Peshawar	Mar. 15	18 42	53	6	2	
Drosh	,, 16	6 35	40	6	1	
Angul	Apr. 23	5 18	about 30	5	1	
Salonah (District Nowgong).	,, 23	4 08	about 5	4	**	
Yatung, Tibet	,, 28	13 03	1-3	4	1	
Lahore	May 19	15 25	2	3	1	
Gauhati (Assam)	,, 24	8 10	about 20	6	1	
Dhubri	June 9	9 27	9	6	1	
Salonah	July 27	9 13	12-15	5	2	Continued vibrations.
Gulmarg (Kashmir)	,, 31	15 15	10	7	3	
Dhubri	Aug. 2	21 56	20	6	1	
Cherrapunji	,, 2	21 58	2	4	1	
Rangpur	,, 2	22 16	15 or 20	4	1	
Gauhati (Assam)	,, 2	22 15	about 15	6	1	
Mymensingh	,, 2	22 40	1-2	5	1	
Cooch Behar (Bengal)	,, 12	1 08	about 10	5	1	
Cherrapunji	Aug. 13	10 45	10	5	2	
Cherat	,, 15	4 04	2	5	2	
Rawalpindi	,, 15	4 02	30	5	3 or 4	
R. A. F. Peshawar	,, 15	4 03	50	6	3	Several minor shocks.
Drosh	,, 15	3 55	70	6	2	
Srinagar (Kashmir)	,, 15	4 05	about 4	8	2	
Gulmargh (Kashmir)	,, 15	4 07	15	7	3	
Maymyo	,, 18	19 25	2	5	..	
Jodhpur	,, 25	0 30	3 or 4	4	1	
Multan	,, 27	15 31	15	6	3	
Jodhpur	,, 27	15 30	5 or 6	4	1	
Srinagar (Kashmir)	,, 27	15 28	about 2	7	1	
Hyderabad (Sind)	,, 27	15 30	3	4	1	
Gulmarg	,, 27	15 26	3	7	1	
Dhubri	,, 28	15 52	10	6	1	
Gauhati (Assam)	Sep. 4	20 35	about 10	6	1	
Salonah (Nowgong District).	,, 7	9 42	about 15	5	1	Continued vibrations.
Yatung (Tibet)	Oct. 3	17 29	about 8	4	several tremors.	
Sialkot	,, 5	22 25	about 3	3	1	
Dras	,, 5	22 35	about 10	6	2	
Drosh	,, 5	22 34	65	6	2	
R. A. F. Peshawar	,, 5	22 34	4	6	3	
Cherat	,, 5	22 35	50	7	3	
Rawalpindi	,, 5	22 35	150	6	3	
Lahore	,, 5	22 50	15	6	2	
Srinagar (Kashmir)	,, 5	22 35	about 5	7	2	
Skardu	,, 5	22 30	55	6	5	
Muzafferabad	,, 5	22 10	..	6	1	
Gurez (Kashmir)	,, 5	22 39	80	7	2	
Mandalay	,, 9	16 00	about 3	3	..	
Maymyo	,, 9	16 35	4	5	1	
Rangpur	,, 12	22 30	5	3	4	
Cooch Behar	,, 12	22 01	about 3	5	..	
Amherst	,, 14	23 50	2	7	1	
Drosh	,, 15	01 00	30	6	2	
Dhubri	,, 27	20 51	11	6	2	
Gauhati	,, 27	20 58	about 40	6	1	

* 2 severe shocks in the beginning and several minor afterwards.
** Small vibrations only.

TABLE E-5—*concld.*

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity (Rossi-Forel scale).	No. of shocks.	REMARKS.	Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity (Rossi-Forel scale).	No. of shocks.	REMARKS.
	1931.	H. M.	Sec.					1931.	H. M.	Sec.			
Rangpur . . .	Oct. 27	21 30	about 10	4	3		Gilgit	Nov. 19	06 15	3	3	3	
Dhubri	,, 30	16 51	about 5	6	1		Gauhati . . .	Dec. 15	01 40	about 5	6	1	
Cherat	Nov. 4	15 21	2	6	2		Salonah . . .	,, 16	01 09	8-10	3	1	
Rawalpindi . . .	,, 4	15 23	about 60	6	2		Do. . . .	,, 16	01 32	about 8	3	...	Continuous small vibrations.
R. A. F. Peshawar .	,, 4	15 25	5	6	3								
Rangpur . . .	,, 13	01 10	10	6	3		Cooch Behar . .	,, 19	12 11	about 2	6	1	
Gauhati . . .	,, 13	01 10	about 15	6	1		Salonah . . .	,, 21	18 00	about 10	5	...	Sharp continued vibrations.
Dhubri	,, 13	02 03	15	7	3								
Yatung (Tibet) . .	,, 13	01 09	about 3	6	1	Followed by several tremors.	Cooch Behar . .	,, 21	18 45	about 3	6	2	
							Rangpur . . .	,, 21	18 48	5	6	2	
Cherrapunji . . .	,, 13	01 09	3	5	3		Dhubri	,, 21	19 31	17	6	3	
		07 13	5										

J. M. SIL,
Meteorologist, Poona.

M@IPC—M—VIII-3-10—28-7-32—300.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW

ANNUAL SUMMARY FOR 1931

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Director General of Observatories

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CENTRAL PUBLICATION BRANCH
1932

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ANNUAL SUMMARY FOR 1931.

PART F.

ERRATA SHEETS.

For the monthly Weather Reports, January to December, 1931

JANUARY 1931.

Reference.	Figure Column.	For	Read
Tavoy	3 and 4.	N 33 E and 2·4.	N 45 E and 2·2.
Amherst . . .	4, 5, 7, 10 and 15.	5·8, 75·2, 89·4, 70·0 and 3·8.	5·5, 75·1, 89·5, 70·1 and 3·6.
Rangoon . . .	3, 4, 5, 13, 14 and 15.	N 23 E, 3·1, 70·4, 80, —2 and 3·1.	N 22 E, 3·2, 70·5, 79, —3 and 3·0.
Bassein	1, 2, 4, 6, 7, 8, 10 and 11.	29·938, —·010, 3·2, 65·4, 89·9, +4·1, 63·9 and +1·0.	29·985, +·043, 2·0, 65·5, 90·1, +4·3, 63·8 and +1·1.
Diamond Island . .	3, 4, 5, 7 and 8.	N 14 E, 3·8, 76·6, 85·0 and +1·4.	N 13 E, 5·6, 76·5, 84·9 and +1·3.
Gwa	1, 4, 5, 6 and 13.	29·955, 2·6, 66·4, 64·2 and 89.	29·953, 2·9, 68·0, 64·1 and 88.
Toungoo . . .	1, 2, 7, 8, 9, 10, 11, 13, 14 and 15.	29·837, +·015, 88·0, +3·6, 91, 58·5, +0·8, 79, —*10* and 3·1.	29·841, +·019, 88·0, +3·7, 92, 59·0, +1·3; 80, —9, and 2·7.
Kyaukpyu . . .	1 and 2.	29·966 and —·004.	29·967 and —·003.
Akyab	3, 13, 14 and 15.	N 16 E, 81, —7 and 1·1.	N 13 E, 82, —6 and 1·2.
Monywa . . .	4, 5, 10, 11, 13, 14 and 15.	2·9, 61·6, 57·3, +0·1, 85, 0 and 1·8.	1·9, 61·5, 57·5, +0·3, 87, +2 and 1·5.
Myitkyina . . .	15.	3·3.	3·0.
Mergui	16, 17, 18, 19 and 20.	0·36, —0·54, 1, —0·4 and 0·32.	0·72, —0·18, 2, +0·6 and 0·40.
Yamethin . . .	1, 2, 4, 5, 6, 7, 8, 10, 11, 13, 14 and 15.	29·337, +·009, 2·6, 63·1, 57·6, 87·2, +2·0, 55·1, —1·1, 70, —10 and 1·1.	29·340, +·012, 1·7, 63·3, 57·7, 87·1, +1·9 55·7, —0·5, 69, —11 and 1·3.
Maymyo . . .	1, 2, 4, 5, 6, 13 and 14.	26·491, +·022, 0·6, 50·3, 48·4, 86 and —5.	26·490, +·021, 1·1, 50·4, 48·6, 87 and —4.
Jessore	5, 6, 7 and 10.	61·1, 59·9, 79·9 and 53·3.	61·0, 59·8, 79·7 and 53·2; and *Omit* (*b*) against the station.
Saugor Island. . .	10.	61·6.	61·6 (*b*).
Burdwan . . .	9.	83.	88.
Dinajpur . . .	12.	49.	45.
Chaibasa . . .	12.	40.	49.
Allahabad . . .	4.	1·0.	3·0.
Mainpuri . . .	4.	1·9.	1·4.
Roorkee . . .	4.	1·1.	3·1.
Rawalpindi . . .	3.	N 28 W.	N 22 W.
Lyallpur . . .	1, 2, 3, 7, 8, 10 and 11.	29·448, —·012, S 38 W, 69·7, +0·9, 41·4 and +2·0.	29·450, —·010, S 23 W, 69·4, +0·6, 41·5 and +2·1; *Omit* (*b*) against the station.
Dras	10 and 11.	0·5 and +11·9.	1·2 and +12·6.
Leh	16 and 17.	0·22 and —0·14.	0·26 and —0·10.
Peshawar . . .	4, 16 and 17.	2·0, 2·47 and +0·91.	1·5, 2·42 and +0·86.
Fort Sandeman . .	7, 8, 10 and 11.	57·1, —3·4, 31·5 and +0·2.	56·7, —3·8, 31·9 and +0·6.
Jodhpur . . .	10 and 11.	53·3 and +2·8.	53·5 and +3·0.

JANUARY 1931—*contd.*

Reference.	Figure Column.	For	Read
Ajmer	10 and 11.	47·1 and +1·1.	46·9 and +0·9.
Kotah	15.	3·1.	2·4.
Jhalrapatan . . .	7.	81·8.	82·4.
Bhuj	5 and 6.	60·6 and 49·1.	60·3 and 48·9.
Dwarka . . .	4 and 6.	8·3 and 58·8.	8·6 and 59·0.
Veraval . . .	6, 7, 8, 13 and 14.	55·6, 82·5, +0·9, 48 and —6.	55·8, 82·3, +0·7, 49 and —5.
Neemuch . . .	1, 2, 3, 7, 8 and 15.	28·377, +·002, N 39 E, 80·2, +2·7 and 1·5.	28·376, +·001, N 41 E, 80·3, +2·8 and 1·6.
Indore	5, 13 and 14.	62·4 49 and —11.	62·8, 48 and —10.
Bhopal	15, 16 and 20.	1·8, 1·20 and 1·13.	1·9, 0·20 and 0·13.
Akola	4.	2·4.	2·3.
Khandwa . . .	5, 13 and 14.	63·3, 45 and —11.	63·0, 47 and —9.
Hoshangabad . .	4.	2·9.	2·7.
Saugor	5.	62·5.	62·7.
Kanker	15.	2·6.	2·5.
Chanda	1 and 2.	29·368 and +·002.	29·369 and +·003.
Jagdalpur . . .	1, 2 and 19.	28·191 (*b*), +·011 and —0·2.	28·190, +·010 and —0·8.
Ratnagiri . . .	1 and 2.	29·737 (*b*) and —·015.	29·738 and —·014.
Page 7		*Omit* the footnote "(*b*) mean of 30 days."	
Marmagao . . .	5, 13 and 14.	77·1, 65 and —17.	77·3, 63 and —19 and *insert* 29·751 and +·001 in columns 1 and 2.
Karwar . . .	6, 13 and 14.	65·3, 71 and —10.	65·4, 73 and —8.
Ahmadnagar . . .	1 and 2.	27·841 and +·010.	27·839 and +·008.
Bijapur . . .	3, 4, 5 and 6.	S 60 E, 3·1, 68·9 and 59·6.	S 59 E, 2·9, 69·1 and 59·7.
Belgaum . . .	6, 13 and 14.	58·8, 55 and —5.	59·0, 57 and —3.
Aurangabad . . .	6, 10, 11, 13 and 14.	53·6, 58·2, +22, 46 and —2.	53·1, 58·3, +2·3, 45 and —3.
Gulbarga . . .	3, 5, 6, 10 and 11.	N 86 E, 68·4, 59·3, 62·7 and +2·9.	S 83 E, 68·6, 59·6, 60·6 and +0·8.
Hyderabad (Deccan) .	16, 17 and 20.	0·03, —0·21 and 0·03.	0, —0·24 and 0.
Hanamkonda . .	1 and 2.	29·135 and +·021.	29·136 and +·022.
Bangalore . . .	3.	N 78 E.	N 77 E.
Mysore	10.	66·6.	61·6.
Mangalore . . .	6, 13 and 14.	70·1, 69 and +3.	69·9, 67 and +1.
Trivandrum . . .	15.	3·4.	3·5.
Madura . . .	15.	5·1.	5·3.

JANUARY 1931—*concld.*

Reference.	Figure Column.	For	Read
Negapatam . . .	4.	11·4.	11·8.
Trichinopoly . . .	4 and 15.	5·3 and 3·2.	3·9 and 3·3.
Coimbatore . . .	6.	66·9.	67·0.
Nellore	1 and 2.	29·929 and +·002.	29·928 and +·001.
Vizagapatam . . .	4.	4·3.	3·4.
Calingapatam. . .	6, 7 and 8.	62·7, 83·0 and +0·8.	62·5, 83·3 and +1·1.
Gopalpur . . .	10, 11 and 15.	61·8, —0·5 and 3·3.	61·9, —0·4 and 3·0.
Dharampore . . .	16, 18 and 20.	2·11, 6 and 0·60.	1·12, 4 and 0·34.
Murree	15.	7·1.	5·6.
Simla	15.	4·3.	3·6.
Mount Abu . . .	1 and 2.	26·104 and +·017.	26·102 and +·015.]
Mercara. . . .	10 and 11.	58·5 and +1·8.	58·8 and +2·1.
Coonoor . . .	1.	24·469.	24·467.

FEBRUARY 1931.

Reference.	Figure Column.	For	Read
Port Blair . . .	1, 2, 10, 11, 13 and 14.	29·842, —·017, 75·2, +0·2, 80 and —3.	29·841, —·018, 75·3, +0·3, 79 and —4.
Victoria Point . .	3, 7 and 8.	N 42 E, 90·1 and +1·4.	N 43 E, 90·0 and +1·3.
Mergui	1, 2, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19 and 20.	29·851, —·005, 74·7, 89·4, —0·1, 9, 91, +6, 4·0, 1·34, —0·68, 2, —0·7 and 0·59.	29·850, —·006, 74·8, 89·1, —0·4, 95,92, +7, 3·9, 2·19, +0·17, 3, +0·3 and 0·94.
Tavoy	1, 2, 3, 4, 5, 6, 7, 8, 13, 14 and 15.	29·913, —·004, N 21 W, 2·7, 75·8, 73·1, 94·3, +3·2, 88, 0 and 3·1.	29·914, —·003, N 20 W, 1·9, 75·7, 73·0, 94·2, +3·1, 87, —1 and 3·0.
Amherst . . .	3, 4 and 5.	S 30 E, 6·3 and 78·8.	S 28 E, 6·2 and 78·7.
Rangoon . . .	1, 2, 4, 5, 6, 13, 14 and 15.	29·904, —·008, 4·0, 72·0, 68·6, 83, —1 and 2·1.	29·905, —·007, 3·0, 72·2, 68·4, 82, —2 and 2·4.
Bassein . . .	4, 5, 6, 7, 8 and 15.	3·0, 73·8, 70·8, 95·0, +5·1 and 2·1.	2·7, 73·9, 70·9, 94·8, +4·9 and 2·3.
Diamond Island . .	1, 2, 4, 6, 13 and 14.	29·873, —·017, 6·6, 73·1, 80 and +5.	29·872, —·018, 9·1, 73·0, 79 and +6.
Gwa	1, 3, 4, 5, 6, 7, 10, 13 and 15.	29·931, S 49 E, 3·3, 68·6, 65·6, 84·6, 60·1, 84 and 2·8.	29·922, S 45 E, 4·5, 68·3, 65·3, 84·2, 59·8, 85 and 2·1; *Omit* (*i*) against the Station.
Page 13 . . .		*Omit* the footnote (*i*) "mean of 23 days."	
Toungoo . . .	1, 2, 15 and 17.	29·786, +·012, 2·1 and —0·18.	29·784, +·007, 2·2 and —0·13.
Kyaukpyu . . .	1, 2, 4, 5, 7, 8, 11, 13 and 15.	29·921, —·003, 4·9, 75·7, 84·9, +3·2, +6·2, 84 and 1·5.	29·922, —·002, 5·4, 76·0, 85·0, +4·2, +8·1, 82 and 1·6 and *insert* —2 in column 14.
Akyab	4.	6·4.	7·5.
Yamethin . . .	3, 4, 6 and 15.	S 81 E, 3·8, 60·4 and 1·4.	S 62 E, 2·5, 60·1 and 0·9.
Mandalay . . .	1, 2, 3, 4 and 15.	29·671, —·017, S 10 E, 1·4 and 1·2.	29·678, —·010, S 5 W, 1·3 and 1·1.
Monywa . . .	1, 2, 4, 5, 6, 7, 8, 10, 11, 13, 14 and 15.	29·655, —·022, 3·1, 68·0, 61·8, 92·8, +4·8, 62·8, +2·4, 69, —4 and 1·8.	29·658, —·019, 2·0, 67·8, 62·0, 93·0, +5·0, 62·3, +2·5, 71, —2 and 1·6.
Maymyo . . .	5.	58·5.	58·8.
Lashio	1, 2, 4, 6, 7 and 8.	27·119, —·001, 2·7, 53·6, 83·2(*p*) and +5·2.	27·123, +·003, 2·8, 53·5, 81·5 and +3·5.
Page 13 . . .		*Omit* the footnote "(*p*) mean of 16 days."	
Bhamo	1, 2, 4, 5, 7, 8, 10 and 11.	29·550, —·010, 2·1, 61·9, 82·4, +1·6, 55·4 and +2·8.	29·554, —·006, 1·8, 61·8, 82·3, +1·5, 55·3 and +2·7.
Myitkyina . . .	1, 2, 4, 5, 10, 11, 13, 14 and 15.	29·470, —·007, 3·0, 59·3, 57·1, +3·0 83, —3 and 4·4.	29·474, —·003, 3·1, 59·1, 57·0, +2·9, 82, —4 and 4·3.
Sibsagor . . .	16 and 17.	1·32 and —0·69.	1·33 and —0·68.
Gauhati	16, 17, 18, 19 and 20.	1·34, +0·10, 2, —0·6 and 1·02.	0·34, —0·90, 1, —1·6 and 0·25.
Jessore (*b*) . . .		*Omit* the figures in columns 8 and 11.	
Dinajpur . . .	16, 17, 18 and 19.	0·90, +0·33, 1 and —0·2.	1·10, +0·53, 2 and +0·8.
Jalpaiguri . . .	16, 17 and 20.	0·04, —0·62 and 0·04.	0·11, —0·55 and 0·07.

FEBRUARY 1931—*contd.*

Reference.	Figure Column.	For	Read
Ranchi	14.	—16.	+16.
Darbhanga . . .	16 and 17.	0·69 and +0·15.	0·74 and +0·20.
Cherrapunji . . .	16, 17, 18 and 19.	1·22, —1·50, 4 and +0·4.	1·36, —1·36, 5 and +1·4.
Gorakhpur . . .	15.	3·6.	2·9.
Mainpuri . . .	4.	2·9.	1·8.
Lucknow . . .	16 and 17.	0·88 and +0·23.	0·89 and +0·24.
Jhansi	3, 5, 6, 7, 8, 13, 14 and 15.	N 31 W, 59·3, 53·0, 76·5, —4·3, 62, +6 and 4·6.	N 40 W, 59·4, 53·2, 76·4, —4·4, 65, + 9 and 4·5; *Omit* (*e*) against the Station.
Page 14 . . .	*Omit* the footnote "(*e*) mean of 27 days."		
Dehra Dun . . .	15.	5·9.	4·7.
Delhi		*Omit* the figures in column 14.	
Hissar	15, 16 and 17.	4·2, 0·40 and +0·05.	4·6, 0·41 and +0·06.
Ambala . . .	7.	68·8.	68·7.
Ludhiana . . .	4 and 15.	2·6 and 4·9.	2·3 and 4·6.
Sialkot	4, 16, 17, 18 and 19.	1·6, 0·59, —1·00, 1 and —2·0.	1·4, 0·79, —0·80, 2 and —1·0.
Khushab . . .	1 and 2.	29·415 and +·036.	29·414 and +·035.
Bahawalpur . . .	3.	N 60 E.	N 62 E.
Quetta	5, 16 and 17.	32·4, 4·95 and +3·09.	32·1, 5·03 and +3·17.
Hyderabad (Sind) . .	1, 2, 5, 6, 7, 8, 10, 11, 12 and 15.	29·951, +·044, 57·0, 48·9, 73·4, —7·4, 52·8, —1·4, 43 and 4·6.	29·953, +·046, 56·7, 48·5, 73·3, —7·5, 52·4, —1·8, 42 and 4·5; *Omit* (*e*) against the Station.
Ahmadabad . . .	1, 2, 3, 4, 6, 7, 8 and 15.	29·827, +·009, N 24 E, 3·6, 53·5, 84·0, —3·8 and 4·2.	29·823, +·005, N 26 E 3·4, 53·4, 84·1, —3·7 and 4·4; *Omit* (*e*) against the Station.
Neemuch . . .	7 and 8.	76·2 and —4·5.	76·0 and —4·7.
Bhopal	7 and 10.	78·6 and 56·3.	81·4 (*l*) and 55·9 and *insert* 0 in columns 16, 18 and 20.
Page 15 . . .	*Insert* "(*l*) mean of 20 days" as footnote.		
Khandwa . . .	5, 6, 13 and 14.	66·5, 55·6, 46 and +2.	66·7, 55·2, 43 and —1.
Saugor	1, 2, 5, 13 and 14.	28·114, —·017, 60·6, 57 and +11.	28·112, —·019, 60·4, 59 and +13.
Jubbulpore . . .	3.	N 57 E.	N 63 E.
Pendra	3, 7 and 8.	S 17 E, 78·8 and —0·2.	S. 78·5 and —0·5.
Malegaon . . .	13 and 14.	41 and —4.	43 and —2.
Ahmadnagar . . .	13, 14 and 15.	38, —9 and 0·5.	40, —7 and 0·4.
Bijapur	1 and 2.	27·988 and +·007.	27·987 and +·006.
Belgaum	5, 6, 13 and 14.	69·4, 60·6, 58 and +7.	69·2, 60·4, 57 and +6.

FEBRUARY 1931—*concld.*

Reference.	Figure Column.	For	Read
Aurangabad . . .	3, 5 and 15.	N 68 E, 69·6 and 1·6.	N 70 E, 69·4 and 1·5.
Gulbarga . . .	10 and 11.	72·3 and +8·2.	72·2 and +8·1.
Raichur. . . .	3.	S 36 E.	S 31 E.
Hyderabad (Deccan) .	15.	1·4.	1·6.
Mangalore . . .	15.	2·1.	2·0.
Trivandrum . . .	15.	0·9.	1·2.
Trichinopoly . . .	3.	N 29 E.	N 30 E.
Salem	1 and 2.	29·029 and +·005.	29·031 and +·007.
Vellore	1 and 2.	29·247 and —·003.	29·248 and —·002.
Cuddapah . . .	4.	7·2.	7·3.
Vizagapatam . . .	4.	3·9.	3·1.
Calingapatam. . .	1, 2, 4, 7 and 8.	29·966, +·020, 3·6, 85·8 and —1·7.	29·968, +·022, 4·0, 85·9 and —1·6.
Gopalpur . . .	4.	6·7.	7·5.
Mukteswar . . .	7, 8, 10, 11, 16 and 17.	46·4, —4·3, 34·6, —0·8, 3·80 and +1·41.	46·2, —4·5, 34·1, —1·3, 4·18 and +1·79.
Mussooree . . .	13.	76.	80.
Cherat	4, 7 and 8.	9·4, 45·4 and —6·8.	10·9, 45·0 and —7·2.
Coonoor . . .	1 and 10.	24·462 and 46·3.	24·492 and 46·4.

MARCH 1931.

Reference.	Figure Column.	For	Read
Port Blair . . .	3, 4, 10 and 11.	N 50 W, 2·9, 76·0 and —0·3.	N 44 W, 2·8, 75·9 and —0·4.
Victoria Point . .	4, 5, 6, 7, 8, 13 and 14.	5·7, 81·1, 76·4, 90·4, +0·1, 83 and +4.	5·8, 81·0, 76·3, 90·3, 0, 80 and +1.
Mergui	1, 2, 5, 7, 8, 10, 11, 13, 14 and 15.	29·847, +·022, 78·0, 89·2, —1·8, 74·8, +2·2, 86, +3 and 3·5.	29·848, +·023, 78·1, 89·3, —1·7, 74·7, +2·1, 87, +4 and 3·2.
Tavoy	1, 2, 4, 5, 15.	29·910, +·024, 3·0, 77·6 and 2·0.	29·911, +·025, 2·0, 77·5 and 1·8.
Amherst . . .	4, 5, 7, and 15.	7·0, 82·3, 89·2, and 4·1.	7·7, 82·2, 89·3 and 3·7.
Rangoon . . .	3, 4, 5, 6, 13, 14 and 15.	N 38 W, 4·1, 74·3, 71·4, 86, +1 and 4·0.	N 42 W, 3·7, 74·4, 71·3, 85, +2 and 3·9.
Bassein . . .	4, 5, 10, 11 and 15.	3·3, 78·0, 70·4, —0·7 and 0·8.	4·0, 77·0, 70·3, —0·8 and 0·9.
Diamond Island . .	1, 2, 4, 5, 6 and 15.	29·868, +·018, 6·2, 80·0, 74·3 and 2·4.	29·866, +·020, 6·4, 79·9, 74·1 and 2·3.
Gwa	1, 4, 5 and 6.	29·906, 5·3, 73·7 and 70·2.	29·901, 6·2, 73·6 and 70·0.
Toungoo . . .	6 and 10.	68·9 and 68·5.	69·0 and 69·0.
Kyaukpyu . . .	1, 2, 3, 4, 10, 11, 13 and 14.	29·893, +·020, N 81 E, 7·1, 71·7, +1·6, 84 and 0.	29·895, +·022, N 80 E, 5·2, 71·4, +1·3, 81 and —3.
Akyab	4, 5, 6, 10, 11, 12, 13 and 14.	9·1, 73·5, 68·0, 66·0, —2·5, 58, 74 and —9.	6·5, 73·6, 68·1, 66·6, —1·9, 61, 75 and —8.
Yamethin . . .	1, 2, 4, 7, 8, 9, 10 and 11.	29·258, +·041, 4·4, 98·1, +0·3, 104, 67·5 and —1·2.	29·255, +·038, 3·6, 97·9, +0·1, 102, 67·9 and —0·8.
Monywa . . .	4, 5, 13 and 14.	2·6, 74·3, 51 and —7.	1·9, 74·2, 52 and —6.
Lashio	1, 2, 3, 4, 5 and 15.	27·114, +·029, N 27 E, 2·9, 64·3 and 1·9.	27·116, +·031, N 30 E, 2·5, 64·4 and 1·8.
Bhamo	1, 2, 4 and 15.	29·505, +·011, 2·5, and 3·5.	29·522, +·028, 2·0 and 3·6.
Myitkyina . . .	1, 2, 4, 5, 6 and 15.	29·440, +·023, 3·8, 67·3, 62·2 and 3·0.	29·435, +·018, 3·4, 67·2, 62·8 and 2·9.
Maymyo . . .	1, 2, 4, 10, 11 and 15.	26·457, +·044, 1·4, 52·2, +1·6 and 0·6.	26·442, +·029, 1·2, 52·0, +1·4 and 0·5.
Tezpur	14.	—17.	—9.
Narayanganj . . .	3.	S.	S 18° E.
Barisal	10 and 11.	68·8 and +0·1.	68·6 and —0·1.
Jessore . . .		*Omit* the figures in columns 8 and 11.	
Berhampore . . .	16 and 17.	1·76 and +0·69.	1·73 and +0·66.
Bogra	16 and 17.	0·76 and —0·48.	0·79 and —0·45.
Chandbali . . .	16, 18 and 20.	0·40, 1 and 0·34.	1·57, 2 and 1·17.
Gorakhpur . . .	15.	2·4.	1·8.
Allahabad . . .	1, 2, 4, 5, 6, 7, 8, 10, 11, 13, 14 and 15.	29·604, +·043, 3·6, 72·0, 57·8, 91·6, —0·3, 60·4, —1·3, 38, —9 and 2·3.	29·599, +·038, 3·7, 72·5, 57·9, 92·1, +0·2, 60·8, —0·9, 36, —11 and 2·5; *Omit* (*b*) against the Station.

MARCH 1931—*contd.*

Reference.	Figure Column.	For	Read
Bahraich . . .	1, 2, 7 and 8.	29·475, +·036, 88·7 and +0·9.	29·476, +·037, 89·4 and +1·6.
Mainpuri . . .	4.	5·1.	2·8.
Bareilly . . .	6.	56·1.	55·8.
Dehra Dun . . .	15.	2·4.	2·2.
Ludhiana . . .	15.	1·6.	1·5.
Sialkot	1, 2, 10 and 11.	29·086, +·049, 52·9 and —1·7.	29·088, +·051, 53·0 and —1·6.
Montgomery . . .	15.	2·1.	1·9.
Bahawalpur . . .	10.	54·8.	54·7.
Dras	16, 17, 18 and 19.	0·75, —3·45, 3 and —7·8.	0·85, —3·35, 4 and —6·8.
Gilgit	7 and 8.	67·7 and +5·8.	67·4 and +5·5.
Kalat	4 and 17.	5·7 and —0·66.	5·3 and —0·72.
Veraval . . .	7 and 8.	87·2 and +2·3.	87·4 and +2·5.
Surat	3.	N 1 E.	N 3 E.
Bhavnagar . . .	3.	N 33 W.	N 31 W.
Bhopal	4.	3·7.	3·6.
Khandwa . . .	16, 17, 18, 19 and 20.	0·01, —0·13, 0, —0·4 and 0·01.	0·10, —0·04, 1, +0·6 and 0·10.
Pendra	16 and 17.	0·68 and —0·66.	0·71 and —0·63.
Raipur	16 and 17.	0·53 and —0·16.	0·59 and —0·10.
Kanker . . .	5, 13 and 20.	76·8, 50 and 0·08.	76·5, 52 and 0·36.
Chanda . . .	5.	78·5.	78·6.
Marmagao . . .	15.	3·7.	2·9.
Belgaum . . .	15.	2·4.	2·5.
Aurangabad . . .	15.	3·2.	3·1.
Gulbarga . . .	3, 10 and 11.	S 43 E, 76·0 and +5·5.	S 39 E, 73·0 and +2·5.
Raichur. . . .	15.	0·4.	0·5.
Cochin	10, 11, 16 and 17.	79·1, +1·8, 2·33 and +0·33.	78·6, +1·3, 2·34 and +0·34.
Trivandrum . . .	16, 17, 18, 19 and 20.	0, —1·62, 0, —2·6 and 0.	0·21, —1·41, 1, —1·6 and 0·21.
Madura . . .	1 and 2.	29·461 and +·030.	29·463 and +·032.
Negapatam . . .	15.	5·1.	5·2.
Trichinopoly . . .	4, 10 and 11.	3·1, 74·4 and +1·6.	3·0, 74·3 and +1·5.
Madras	15.	1·9.	2·0.
Bellary	16, 17 and 20.	0·03, —0·17 and 0·03.	0·04, —0·16 and 0·04.
Coconada . . .	1 and 20.	29·915 and +·034.	29·916 and +·035.

MARCH 1931—*concld.*

Reference.	Figure Column.	For	Read
Vizagapatam . . .	15, 16 and 17.	2·9, 0·11 and —0·19.	3·0, 0·12 and —0·18.
Calingapatam. . .	1, 2, 3, 4 and 15.	29·911, +·032, N 87 W, 4·9 and 2·3.	29·912, +·033, N 89 W, 5·4 and 2·4.
Gopalpur . . .	4, 7 and 8.	8·4, 84·2 and —2·6. (*n*)	9·5, 87·4 and +0·6. (*n*)
Mukteswar . . .	1 and 2.	22·858 and +·054. (*g*)	22·869 and+·065. (*g*)
Mussoôree . . .	10.	43·2.	42·8.
Simla	1, 2, 5, 6, 7, 8, 10 and 11.	23·102, +·037, 50·2, 38·1 (*d*), 56·6, +0·1, 43·8 and +0·7.	23·101, +·036, 50·5, 38·4 (*c*), 56·9, +0·4, 44·1 and +1·0; *Omit* (*b*) against the Station.
Cherat	1, 2, 3, 5, 6, 7, 8, 10, 11 and 15.	25·745, +·051, N 25 W, 54·0, 43·0, 63·1, +2·7, 49·0, +2·2 and 4·1.	25·747, +·053, N 24 W, 54·3, 43·2, 63·5, +3·1, 49·2, +2·4 and 4·0; *Omit* (*b*) against the Station.
Mount Abu . . .	15.	3·7.	2·9.
Coonoor . . .	15.	2·0.	1·6.

APRIL 1931.

Reference.	Figure Column.	For	Read
Victoria Point . .	1 and 2.	29·716 and +·007.	29·717 and +·008.
Mergui	1 and 2.	29·800 and +·011.	29·801 and +·012.
Tavoy	1, 2, 4, 5, 6, 10, 11 and 15.	29·861, +·013, 2·9, 83·2, 76·9, 76·0, +1·5 and 4·5.	29·862, +·014, 2·3, 83·1, 76·8, 75·5, +1·0 and 4·2.
Amherst . . .	4, 5, 6 and 15.	9·7, 85·4, 78·3 and 6·5.	9·5, 85·3, 78·2 and 6·1.
Rangoon . . .	4, 5, 6 and 15.	4·2, 82·3, 77·3 and 3·8.	4·3, 82·4, 77·4, and 3·4.
Bassein . . .	4, 6 and 15.	4·2, 79·8 and 3·6.	4·8, 79·9 and 3·3.
Diamond Island . .	1, 2, 4, 5 and 15.	29·817, +·009, 4·7, 84·1 and 5·2.	29·816, +·008, 4·9, 83·9 and 4·7.
Gwa	4, 5, 6, 7 and 15.	9·5, 83·0, 78·3, 88·6 and 2·2.	10·5, 82·9, 77·9, 88·8 and 2·1.
Toungoo . . .	1, 2, 6 and 15.	29·694, +·023, 76·5 and 4·6.	29·693, +·022, 76·6 and 4·3.
Akyab	4, 6 and 15.	5·7, 77·5 and 5·8.	5·8, 77·4 and 5·1.
Yamethin . . .	1, 2, 4, 6, 7, 8, 10, 11, 13, 14, 15, 16 and 17.	29·184, +·021, 6·1, 74·3, 101·8, +0·9, 77·6, +1·5, 62, —2, 2·0, 1·89 and +0·39.	29·187, +·024, 4·5, 74·2, 101·9, +1·0, 78·4, +1·9, 61, —3, 1·6, 1·92 and +0·42.
Monywa . . .	1, 2, 4, 5, 6 and 15.	29·532, —·008, 2·8, 83·9, 71·4 and 1·6.	29·531, —·009, 2·1, 83·7, 71·3 and 1·4.
Maymyo . . .	1, 2, 3, 4, 5 and 6.	26·405, +·027, S 67 W, 1·9, 73·3 and 65·3.	26·397, +·019, S 68 W, 1·5, 73·4 and 65·2.
Bhamo	4, 5 and 15.	3·5, 75·9 and 3·8.	3·4, 75·8 and 3·4.
Myitkyina . . .	1, 2, 4, 5, 6, 7, 8 and 15.	29·347, +·001, 5·4, 74·9, 67·7, 91·9, +3·6 and 5·3.	29·345, —·001, 5·5, 74·8, 67·3, 92·0, +3·7, and 5·0.
Sibsagar . . .	5, 7 and 8.	72·7, 82·7 and +1·5.	72·1, 82·1 and +0·9.
Dhubri	16 and 17.	7·98 and +2·84.	8·10 and +2·96.
Silchar	6, 7, 8, 16 and 17.	73·2, 90·1, +2·4, 10·08 and —4·25.	73·0, 90·2, +2·5, 10·27 and —4·06.
Chittagong . . .	16 and 17.	1·58 and —3·89.	1·83 and —3·64.
Jessore . . .		*Omit* the figures in columns 8 and 11.	
Saugor Island . .	15.	5·7.	5·9.
Mymensingh . . .	8.	—8·1.	+1·9.
Jalpaiguri . . .	15.	5·3.	5·0.
Chandbali . . .	16, 18 and 20.	0·40, 1 and 0·34.	0·91, 3 and 0·52.
Patna	5, 13 and 14.	84·5, 42 and —9.	84·1, 43 and —8.
Gorakhpur . . .	1 and 2.	29·461 and —·020.	29·462 and —·019.
Benares . . .	1, 2, 3, 5, 6, 7, 8, 10 and 11.	29·469, —·028, S 37 W, 86·6, 67·0, 105·3, +3·2, 73·1 and +1·7.	29·468, —·029, S 41 W, 86·8, 67·1, 105·4, +3·3, 73·3 and +1·9.
Allahabad . . .	1 and 2.	29·423 and —·013.	29·425 and —·011.
Jhansi	10 and 11.	76·0 and —0·1.	76·1 and 0.

APRIL 1931—*contd.*

Reference.	Figure Column.	For	Read
Bareilly . . .	15.	1·7.	1·5.
Hissar	5 and 6.	81·3 and 68·4.	81·1 and 68·2.
Ludhiana	16, 17 and 20.	0·02, —0·83 and 0·02.	0·08, —0·77 and 0·04.
Khushab . . .	1, 2, 7, 8, 10 and 11.	29·142, —·011, 96·9 (*c*), +4·3, 72·0 (*c*), and +5·3.	29·141, —·012, 96·8, +4·2, 71·7 and +5·0
Page 30 . . .	*Omit* the footnote "(*c*) mean of 29 days".		
Lyallpur . . .	1, 2, 3, 5, 6, 7, 8 and 15.	29·157, —·002, N 19 W, 78·6, 63·0, 96·2, +4·6 and 3·5.	29·156, —·003, N 16 W, 78·7, 63·3, 96·1, +4·5 and 3·2.
Montgomery . . .	15.	1·4.	1·3.
Multan	1, 2 and 4.	29·324, —·008 and 2·9.	29·326, —·006 and 2·8.
Bahawalpur . . .	1 and 4.	29·379 and 3·1.	29·375 and 3·2.
Peshawar . . .	1 and 2.	28·653 and +·003.	28·650 and 0.
Fort Sandeman . .	16 and 17.	0·86 and —0·53.	0·87 and —0·52.
Quetta	1 and 2.	24·676 and +0·33.	24·674 and + 0·31.
Chaman . . .	16 and 17.	0·14 and —0·54.	0·15 and —0·53.
Dalbandin . . .	5, 6 and 15.	66·4, 56·3 and 3·2.	66·2, 56·0 and 3·1; *Omit* (*c*) against the Station.
Jhalrapatan . . .	15.	1·1.	0·8.
Bhuj	10 and 11.	73·4 and +2·1.	72·9 and +1·6.
Rajkot	1, 2, 3, 4, 5, 6, 13, 14 and 15.	29·392, +·001, N 71 W, 8·1, 82·0, 71·7, 58, —5 and 1·4.	29·389, —·002, N 73 W, 8·0, 82·1, 71·9, 59, —4 and 1·7; *Omit* (*c*) against the Station.
Nowgong . . .	4, 7 and 8.	2·9, 106·4 and +4·6.	2·7, 106·3 and +4·5 and *reject* the figures in columns 1 and 2.
Page 31 . . .	*Omit* the footnote "(*p*) mean of 16 days".		
Pendra	1 and 2.	27·758 and —·003.	27·757 and —·004.
Jagdalpur . . .	15.	1·2.	1·5.
Marmagao . . .	15.	7·3.	5·7.
Malegaon . . .	5 and 15.	88·7 and 2·2.	88·8 and 2·1.
Bijapur . . .	1 and 2.	27·897 and +·018.	27·898 and +·019.
Gulbarga . . .	5, 10, 11, 13 and 14.	87·9, 80·5, +4·2, 38 and —9.	87·6, 79·3 (*c*), +3·0, 39 and —8.
Hyderabad (Deccan) .	7, 8 and 9.	102·9 (*k*), +1·7 and 109.	103·6, +2·4 and 110.
Cochin	15.	6·4.	6·3.
Madura	4.	3·6.	3·4.
Negapatam . . .	4.	7·2.	7·5.
Trichinopoly . . .	1, 2, 16, 17, 18 and 19.	29·588, +·011, 4·90, +3·25, 3 and +1·2.	29·589, +·012, 5·02, +3·37, 4 and +2·2.

APRIL 1931—*concld.*

Reference.	Figure Column.	For	Read
Salem	4.	4·2.	4·0.
Bellary	15.	3·1.	2·9.
Kurnool . . .	1, 2, 6, 13 and 14.	28·894, +·018, 72·6, 42 and —12.	28·897, +·021, 73·1, 44 and —10.
Masulipatam . . .	15.	4·8.	4·0.
Calingapatam. . .	3, 5, 6, 7, 8, 10 and 11.	S 59 W, 85·4, 79·7, 92·0, —1·1, 78·4 and +0·5.	S 57 W, 85·8, 80·1, 92·2, —0·9, 78·8 and +0·9.
Topalpur . . .	3.	S 31 W.	S 35 W.
Maymyo . . .	1 and 2.	26·405 and +·027.	26·398 and +·020.
Mukteswar . . .	1, 2, 10 and 11.	22·814, +·007, 55·6 and +5·9.	22·817, +·010, 55·7 and +6·0.
Coonoor . . .	1 and 15.	23·433 and 4·6.	23·434 and 3·4.
Page 32 . . .		*Omit* the footnote "(*k*) mean of 21 days".	

MAY 1931.

Reference.	Figure Column.	For	Read
Mergui	1 and 2.	29·749 and +·002.	29·748 and +·001.
Tavoy	1, 2, 4, 5, 7, 8, 10, 11, 12, 13, 14 and 15.	29·801, +·003, 3·0, 82·4, 92·3, +3·4, 76·7, +1·2, 73, 80, —7 and 7·4.	29·804, +·006, 2·4, 82·2, 92·2, +3·3, 76·3, +0·8, 72, 81, —6 and 7·7.
Amherst	1, 5, 6 and 15.	29·733, 81·9, 77·5 and 8·0.	29·734, 81·8, 77·4 and 7·7.
Rangoon	1, 2, 5, 6, 7, 8 and 15.	29·771, +·008, 83·4, 78·8, 93·7, +2·0 and 5·9.	29·770, +·007, 83·5, 78·9, 93·6, +1·9 and 6·1.
Bassein	1, 2, 5, 15, 16 and 17.	29·758, +·013, 84·9, 6·1, 5·53 and —4·31.	29·761, +·016, 85·1, 6·0, 5·45 and 4·39.
Diamond Island	4 and 15.	6·8 and 6·3.	7·4 and 6·5.
Gwa	1, 3, 4, 5 and 15.	29·768 N 38 E, 7·7, 84·7 and 5·4.	29·767, N 41 E, 7·4, 84·6 and 4·8.
Toungoo	5, 13, 14, 16 and 17.	83·3, 73, —8, 2·96 and —4·76.	83·2, 74, —7, 3·01 and —4·71.
Akyab	5 and 6.	83·0 and 78·0.	83·1 and 78·1.
Yamethin	1, 2, 4, 15, 16 and 17.	29·130, +·026, 6·8, 4·0, 4·30 and —1·50.	29·124, +·020, 5·1, 3·9, 4·39 and —1·41.
Monywa	1, 2, 3, 4, 5, 13, 14 and 15.	29·464, —·004, S 77 E, 2·7, 84·2, 63, —5 and 3·0.	29·466, —·002, S 85 E, 2·2, 84·1, 65, —3 and 2·9.
Maymyo	2, 4, 5, 6 and 15.	+·010, 2·7, 74·2, 68·3 and 2·5.	+·011, 1·8, 74·1, 68·2 and 2·7.
Lashio	1, 2, 4, 5, 7, 8, 10, 11, 16 and 17.	26·994, +·003, 3·1, 73·7, 87·0, —0·2, 66·7, —0·1, 5·51 and 1·40.	26·993, +·002, 2·8, 73·8, 86·9, —0·3, 66·8 0, 5·60 and —1·31.
Bhamo	1, 2, 4 and 6.	29·348, —·004, 2·9 and 72·9.	29·349, —·003, 2·5 and 73·0.
Myitkyina	1, 2, 4, 6, 13 and 14.	29·270, +·005, 3·6, 72·2, 76 and —3.	29·268, +·003, 3·4, 72·1, 75 and —4.
Sibsagar	11.	+0·1.	0.
Dhubri	16, 17, 18 and 19.	16·83, +2·14, 10 and +4·1.	21·35, +6·66, 24 and +9·1.
Silchar	16, 17, 18 and 19.	16·28, +0·69, 20 and +3·9.	17·44, +1·85, 21 and +4·9.
Cox's Bazar	4.	4·0 (*b*).	4·0.
Chittagong	4.	9·0.	9·0 (*b*).
Jessore		Omit the figures in columns 8 and 11.	
Dinajpur	2 and 3.	+·005 and S 83 E.	—·005 and S 85 E.
Jalpaiguri	16, 17, 18, 19 and 20.	7·35, —3·72, 15, +2·6 and 2·05.	12·43, +1·36, 17, +4·6 and 2·60.
Balasore	16 and 17.	2·51 and —2·50.	2·57 and —2·44.
Chandbali	16.	2·77.	2·33.
Chaibasa	16, 17, 18 and 19.	2·50, —0·73, 5 and —0·8.	2·64, —0·59, 6 and +0·2.
Darbhanga	16, 17, 18, 19 and 20.	0·06, —2·72, 0, —4·1 and 0·06.	1·02, —1·76, 2, —2·1 and 0·68.
Page 35	Against Madras, under heading "Departure from normal of minimum temperature" for +1·5, *read* +1·3.		
Page 36	Against Malabar, under heading departure from normal of minimum temperature for +1·9, *read* +1·0.		
Gorakhpur	16 and 17.	0·68 and —0·79.	0·75 and —0·72.

MAY 1931—*contd.*

Reference.	Figure Column.	For	Read
Agra	4.	4·5.	4·6 (*b*).
Hissar		*Reject* the figures in columns 6, 13 and 14.	
Ludhiana . . .	1 and 2.	28·799 and —·010.	28·798 and —·011.
Khushab . . .	1 and 2.	29·015 and +·004.	29·010 and —·001.
Lyallpur . . .	1, 2, 3, 7, 8, 10, 11 and 15.	29·022, +·014, N 72 E, 101·4, —1·4, 73·2, —0·4 and 2·8.	29·023, +·015, N 77 E, 101·5, —1·3, 73·5, —0·1 and 2·7; *Omit* (*b*) against the Station.
Montgomery . . .	1, 2, 7, 8, 10 and 11.	29·045, —·001, 103·6, —2·8, 75·2 and —2·3.	29·046, 0, 103·5, —2·9, 75·4 and —2·1.
Khanpur . . .	4 and 15.	3·2 and 1·4.	3·4 (*d*) and 0·8.
Page 38 . . .		*Insert* "(*d*) mean of 28 days" as a footnote.	
Skardu . . .	11, 16 and 17.	—1·5, 1·67 and +0·71.	—2·1, 1·16 and +0·20.
Peshawar . . .	1, 2, 3, 5, 6, 7, 8, 10, 11 and 15.	28·508, —·001, N 64 N, 83·9, 65·8, 96·0, —0·8, 69·5, —0·7 and 5·2.	28·510, +·001, N 68 E, 83·7, 65·7, 95·5, —1·3, 69·3, —0·9 and 5·1; *Omit* (*b*) against the Station.
Dera Ismail Khan . .	10 and 11.	73·6 and —1·2.	73·2 and —1·6.
Fort Sandeman . .	1, 2, 7 and 8.	25·285, —·004, 87·7 and —4·3.	25·284, —·005, 87·8 and —4·2; *Omit* (*b*) against the Station.
Bikaner . . .	20.	0·0.	0·20.
Bhavnagar . . .	7 and 8.	106·1 and +1·1.	106·3 and +1·3.
Neemuch . . .	15.	0·6.	0·4.
Nowgong . . .	10 and 11.	80·1 (*b*) and +0·4.	80·2 and +0·5.
Sutna	16, 17, 18 and 19.	0·09, —0·39, 0 and —1·3.	0·32, —0·16, 1 and —0·3.
Khandwa . . .	1, 2, 3, 4, 7, 8, 10, 11 and 15.	28·672, —·004, N 71 W, 9·8, 108·0, +1·3, 83·2, +2·2 and 0·3.	28·673, —·003, N 74 W, 10·4, 108·1, +1·4, 83·3, +2·3 and 0·4; *Omit* (*b*) against the Station.
Saugor	1 and 2.	27·874 and —·015.	27·876 and —·013.
Pendra	7 and 8.	101·9 (*c*) and +0·3.	101·7 (*c*) and +0·6.
Kanker . . .	10.	83·5.	83·4.
Chanda . . .	16, 17 and 20.	0, —0·71 and 0.	0·09, —0·62 and 0·09.
Jagdalpur . . .	15.	2·2.	2·3.
Malegaon . . .	15.	0·7.	0·8.
Ahmadnagar . . .	4.	6·5.	6·3.
Aurangabad . . .	1, 2, 4 and 6.	27·882, —·001, 8·4 and 68·2.	27·883, 0, 7·6 and 68·1.
Parbhani . . .	16, 17 and 20.	0, —1·35 and 0.	0·09, —1·26 and 0·09.
Nizamabad . . .	1, 2 and 15.	28·475, —·013 and 1·9.	28·474, —·014 and 1·8.
Gulbarga . . .	1, 2 and 5.	28·255, +·003 and 86·2.	28·252, 0 and 86·3.

MAY 1931—*concld.*

Reference.	Figure Column.	For	Read
Raichur. . . .	6, 13 and 14.	76·0, 58 and +2.	76·1 (*c*), 59 and +3.
Hyderabad (Dn.) . .	1, 2, 7 and 8.	28·036, +·009, 106·4 (*d*) and +3·3.	28·035, +·008, 106·5 and +3·4.
Hanamkonda . .	7, 8, 10 and 11.	108·4 (*b*), +5·0, 82·7 (*b*) and +1·4.	108·5, +5·1, 83·2 and +1·9.
Calicut	16, 17, 18 and 19.	6·64, —1·89, 6 and —2·5.	6·74, —1·79, 7 and —1·5.
Trivandrum . . .	10 and 11.	83·9 and +6·9.	80·4 and +2·5.
Pamban . . .	3, 6, 13 and 14.	S 10 W, 80·4, 74 and —4.	S 11 W, 80·7, 76 and —2.
Coimbatore . . .	6, 13 and 14.	74·3, 71 and —9.	74·6, 74 and —6.
Salem	4 and 15.	4·7 (*h*) and 3·3.	4·6 (*j*) and 3·2.
Page 40 . . .	*Omit* the footnotes, "(*h*) mean of 24 days," "(*d*) mean of 28 days" and "(*f*) mean of 26 days."		
Cuddalore . . .	7, 8, 10 and 11.	97·5, —0·9, 80·9 and +0·6.	97·3, —1·1, 81·0 and +0·7.
Bellary	5.	64·7.	84·7.
Kurnool . . .	8.	+·01.	+0·1.
Masulipatam . . .	15.	3·3.	2·5.
Vizagapatam . . .	1, 2, 4, 7, 8, 10 and 11.	29·586, +·007, 5·8, 91·3, —0·7, 82·0 and +1·2.	29·582, +·003, 6·3, 91·4, —0·6, 82·1 and +1·3.
Calingapatam. . .	1 and 2.	29·681 and +·002.	29·680 and +·001.
Gopalpur . . .	4, 16 and 17.	13·1, 0·03 and —1·94.	14·9, 0·04 and —1·93.
Murree	15, 16, 17, 18, 19 and 20.	1·8, 2·93, +0·06, 5, 0 and 0·76.	1·6, 4·03, +1·16, 7, +2·0 and 0·87.
Drosh	4, 5, 6, 7, 8, 10, 11, 13, 14, 15, 16, 17, 18, 19 and 20.	2·4, 60·4, 55·0, 76·3, —5·9, 55·0, —4·2, 70, +16, 4·2, 2·97, +1·02, 9, +4·9 and 0·68.	2·8, 59·5, 54·5, 74·5, —7·7, 54·4, —4·8, 72, +18, 4·7, 4·75, +2·80, 12, +7·9 and 0·75; *Omit* (*f*) against the Station.
Coonoor . . .	15.	5·2.	3·9.

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Reference.	Figure Column.	For	Read
Tavoy	4, 5, 6, 10, 11, 13, 14 and 15.	3·1, 78·4, 76·6, 75·6, +0·6, 92, 0 and 9·0.	2·6, 78·1, 76·8, 75·5, +0·5, 94, +2 and 9·1.
Amherst . . .	4, 5, 6, 15 and 16.	8·8, 80·4, 77·5, 9·7 and 23·10.	9·0, 80·3, 77·3, 9·4 and 24·93.
Rangoon . . .	1, 2, 4 and 15.	29·702, —·012, 3·3 and 8·9.	29·703, —·011, 3·5 and 8·8.
Diamond Island . .	1, 2, 6, 13, 14 and 15.	29·654, —·014, 78·3, 86, +2 and 8·2.	29·656, —·012, 79·2, 85, +1 and 8·4.
Monywa . . .	1, 2, 4, 6 and 15.	29·397, —·011, 3·9, 77·9 and 5·9.	29·380, —·010, 3·7, 78·0 and 6·0.
Maymyo . . .	1, 2, 4, 5, 13, 14 and 15.	26·258, +·006, 2·3, 74·0, 86, —1 and 5·3.	26·257, +·005, 1·6, 73·7, 8·9, +2 and 5·6.
Bhamo	1, 2, 4 and 15.	29·257, —·011, 2·5 and 9·4.	29·258, —·010, 2·0 and 9·5.
Bassein . . .	1, 4, 5, 6, 13, 14 and 15.	29·679, 3·0, 81·6, 78·6, 87, —5 and 8·2.	29·682, 2·9, 81·5, 78·7, 88, —4 and 8·3.
Yamethin . . .	1, 2, 4, 5, 13 and 14.	29·057, +·016, 8·8, 81·8, 80 and —2.	29·059, +·018, 7·0, 82·0, 79 and —3.
Lashio	1, 2, 5, 6 and 15.	26·921, +·002, 75·2, 71·4 and 6·7.	26·920, +·001, 75·3, 71·3 and 6·6.
Gauhati. . . .	16, 17, 18 and 19.	9·44, —4·39, 11 and —5·1.	9·60, —4·23, 12 and —4·1.
Dhubri	16, 17, 18, 19 and 20.	9·25, —14·57, 14, —3·9 and 2·45.	13·76, —10·06, 16, —1·9 and 2·75.
Silchar	16, 17, 18 and 19.	23·65, +1·97, 19 and —1·8.	24·09, +2·41, 20 and —0·8.
Cox's Bazar . . .	7 and 8.	88·4 and +2·1.	88·5 and +2·2.
Chittagong . . .	1 and 2.	29·554 and +·021.	29·553 and +·020.
Barisal	16, 17, 18 and 19.	8·93, —7·40, 10 and —7·2.	9·48, —6·85, 11 and —6·2.
Jessore	1.	29·587.	29·541 and *Omit* the figures in columns 8 and 11.
Mymensingh . . .	16, 17 and 20.	16·72, —1·99 and 2·15.	18·99, +0·28 and 4·07.
Dinajpur . . .	16, 17, 18 and 19.	5·63, —8·42, 9 and —5·1.	5·73, —8·32, 10 and —4·1.
Jalpaiguri . . .	16, 17 and 20.	27·62, +3·89 and 3·22.	32·82, +9·09 and 3·75.
Cuttack . . .	16 and 17.	5·73 and —4·35.	5·75 and —4·33.
Ranchi	1, 8, 11, 14, 17 and 19.	27·454, +12·3, +3·8, —37, —7·03 and —11·5.	27·451, +5·7, +2·2, —24, —1·94 and —6·2.
Naya Dumka . .	16, 17, 18 and 19.	5·44, —4·63, 9 and —3·2.	5·82, —4·25, 10 and —2·2.
Darbhanga . . .	1 and 2.	29·374 and —·009.	29·375 and —·008.
Cherrapunji . . .	16 and 17.	139·03 and 43·11.	139·17 and 43·25.
Amherst . . .	16.	23·10.	24·93.
Lucknow . . .	16, 17, 18 and 19.	1·02, —3·45, 3 and —2·5.	1·26, —3·27, 4 and —1·5.
Bahraich . . .	7 and 8.	104·8 and +6·7.	105·3 and +7·2.
Bareilly . . .	16, 17, 18 and 19.	1·58, —3·56, 1 and —4·3.	1·70, —3·44, 2 and —3·3.
Ludhiana . . .	4.	4·6.	2·7.

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Reference.	Figure Column.	For	Read
Rawalpindi . . .	1, 2, 4, 5, 10, 11 and 15.	27·879, +·022, 3·2, 92·1, 74·4, —1·3 and 1·8.	27·878, +·021, 3·3, 92·2, 74·6, —1·1 and 1·9; *Omit* (*c*) against the Station.
Lyallpur . . .	1, 2, 3, 4, 5, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 and 20.	28·916, +·064, S 17 W, 3·4, 91·8, 105·8, —0·3, 79·7, —2·5, 73, 34, —15, 2·0, 0·49, —0·84, 2, 0 and 0·22.	28·918, +·066, S 8 W, 3·5, 91·4, 105·9, —0·2, 79·4, —2·8, 71, 35, —14, 1·9, 0·96, —0·37, 3, +1·0 and 0·47; *Omit* (*c*) against the Station.
Multan	15.	2·4.	0·7.
Bahawalpur . . .	1.	29·134.	29·135.
Dera Ismail Khan . .	1 and 2.	28·948 and +·061.	28·943 and +·056.
Chaman . . .	16, 17 and 20.	0, —0·02 and 0.	0·04, +0·02 and 0·04.
Dalbandin . . .	16, 17 and 20.	0, —0·02 and 0.	0·05, +0·03 and 0·05.
Mirjawa . . .	15.	0·8.	0·6.
Kotah	16 and 17.	0·22 and —2·72.	0·21 and —2·73.
Jhalrapatan . . .	16 and 18.	0·83 and 3.	0·93 and 4.
Veraval . . .	1, 2, 3, 4, 10, 11 and 15.	29·661, +·055, S 87 W, 10·0, 82·7, +1·5 and 4·6.	29·662, +·056, S 83 W, 10·1, 82·6, +1·4 and 4·4; *Omit* (*c*) against the Station.
Sutna	16, 17, 18, 19 and 20.	1·73, —4·19, 3, —3·4 and 0·64.	1·93, —3·99, 4, —2·4 and 0·66.
Akola	15.	3·4.	3·2.
Khandwa . . .	16, 17, 18 and 19.	4·10, —1·32, 7 and 0.	3·50, —1·92, 6 and —1·0.
Hoshangabad . .	16, 17 and 20.	1·57, —4·60 and 1·06.	3·01, —3·16 and 1·59.
Saugor	16, 17, 18 and 19.	1·67, —4·80, 6 and —2·1.	1·60, —4·87, 5 and —3·1.
Pendra	1, 2, 16, 17, 18 and 19.	27·570, +·032, 4·52, —4·01, 7 and —5·2.	27.568, +·030, 4·36, —4·17, 6 and —6·2.
Raipur	1, 2, 5, 7, 8, 13 and 14.	28·600, +·008, 88·4, 104·0, +6·7, 51 and —15.	28·599, +·007, 88·2, 104·2, +6·9, 52 and —14.
Kanker . . .	10.	79·8.	79·9.
Jagdalpur . . .	7 and 8.	97·4 and +7·1.	97·7 and +7·4.
Marmagao . . .	4.	7·9.	8·0.
Malegaon . . .	10, 11 and 12.	76·2, +1·1 and 56.	76·6, +1·5 and 66.
Ahmadnagar . . .	10 and 11.	74·8 and +2·9.	74·9 and +3·0.
Belgaum . . .	15.	7·4.	7·5.
Gulbarga . . .	4.	8·8.	9·1 (*c*).
Raichur. . . .	1, 2, 5, 6, 7, 8 and 15.	28·405, +·021, 81·7, 75·4, 96·7, +1·5 and 2·0.	28·404, +·020, 81·6, 75·3, 96·6, +1·4 and 1·9.
Hyderabad (Dn.) . .	1 and 2.	27·982 and +·029.	27·980 and +·027.
Chitaldrug . . .	1 and 2.	27·364 and +·016.	27·363 and +·015.
Cochin	1 and 2.	29·807 and +·005.	29·806 and +·004.

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Reference.	Figure Column.	For	Read
Trichinopoly . . .	15.	4·9.	5·0.
Coimbatore . . .	6, 13 and 14.	72·4, 70 and —10.	72·7, 72 and —8.
Salem	6, 10, 11 and 15.	75·2, 76·7, +2·1 and 6·2.	75·3, 77·3, +2·7 and 6·1.
Madras	4.	5·8.	5·7.
Vizagapatam . . .	1, 2, 4, 10 and 11.	29·456, —·012, 4·9, 82·7 and +2·5.	29·457, —·011, 4·7, 82·6 and +2·4.
Calingapatam. . .	10, 11 and 15.	82·6, +2·6 and 6·1.	82·3, +2·3 and 6·3.
Gopalpur . . .	1, 2, 5, 7, 8 and 15.	29·509, +·005, 87·1, 92·5, +2·9 and 4·9.	29·510, +·006, 86·8, 92·4 +2·8 and 5·0.
Mussooree . . .	1, 5, 6, 7, 10, 13 and 15.	23·270, 68·7, 56·6, 78·5, 63·2, 48 and 3·1.	23·269, 68·8, 56·5, 78·7, 63·3, 46 and 3·0; *Omit* (c) against the Station.
Simla	5, 10 and 11.	69·7, 62·1 and +2·5.	70·0, 62·2 and +2·6.
Murree	15, 16, 17 and 20.	1·5, 4·27, +0·41 and 1·60.	1·2, 4·85, +0·99 and 1·75.
Parachinar . . .	4.	3·7.	3·2.
Coonoor . . .	1.	23·373.	24·373.
Aurangabad . . .	3, 15, 16, 17, 18, 19 and 20.	N 80 W, 7·2, 2·05, —3·38, 4, —3·5 and 1·27.	N 78 W, 7·2, 6·20, +0·77, 8, +0·5 and 1·41.
Parbhani . . .	16, 17, 18, 19 and 20.	1·05, —7·74, 2, —6·5 and 0·91.	4·32, —4·47, 7, —1·5 and 2·17.
Nizamabad . . .	6, 13 and 14.	77·2 (*f*), 74 and +6.	75·1 (*o*), 68 (*o*) and 0.
Page 47. . . .	*Omit* the footnote "(*f*) mean of 26 days" and *insert* "(*o*) mean of 17 days."		

JULY 1931.

Reference.	Figure Column.	For	Read
Port Blair . . .	2.	—·038.	+·033.
Victoria Point . .	2.	—·037.	+·036.
Mergui	2.	—·034.	+·037.
Tavoy	1, 2, 4, 5, 13, 14 and 15.	29·803, —·035, 2·6, 77·1, 91, —2 and 8·3.	29·802, +·033, 2·1, 76·8, 93, 0 and 8·7.
Amherst . . .	4, 6 and 15.	8·8, 75·8 and 9·7.	9·0, 75·7 and 9·4.
Rangoon . . .	1, 2, 4, 6, 13, 14 and 15.	29·749, —·023, 3·5, 77·6, 91, —1 and 9·2.	29·748, +·040, 3·6, 77·7, 92, 0 and 9·1.
Bassein	2, 4 and 15.	—·026, 3·2 and 8·8.	+·040, 3·0 and 9·0.
Diamond Island . .	2, 4, 5, 6 and 15.	—·035, 8·4, 81·3, 78·3 and 8·9.	+·030, 8·5, 81·2, 78·2 and 9·1.
Gwa	1, 4, 5, 6 and 15.	29·730, 3·6, 78·5, 77·4 and 9·3.	29·732, 3·2, 78·5, 77·3 and 7·2.
Toungoo . . .	1, 2, 6 and 15.	29·603, —·008, 75·9 and 9·6.	—29·601, +·052, 76·1 and 9·6.
Kyaukpyu . . .	2, 3, 15, 16 and 17.	—·025, S 35 E, 8·9, 64·31 and +16·98.	+·036, S 38E, 9·1, 64·99 and +17·66.
Akyab	2, 4, 5, 6 and 15.	—·027, 10·8, 79·6, 77·7 and 9·7.	+·033, 10·5, 79·7, 77·8 and 9·8.
Minbu	1, 2, 4, 6, 13 and 14.	29·508, —·042, 6·2, 76·5, 77 and —6.	29·506, +·017, 4·7, 76·8, 79 and —4.
Yamethin . . .	1, 2, 3, 7, 8 and 15.	29·074, —·016, S 1 E, 89·9, +0·2 and 8·7.	29·075, +·042, S 3 E, 89·8, +0·1 and 8·9.
Mandalay . . .	1, 2, 4, 5, 13, 14 and 15.	29·410, —·050, 8·4, 83·3, 73, —2 and 7·3.	29·414, +·005, 8·3, 83·2, 74, —1 and 5·5.
Monywa . . .	2, 4, 6 and 15.	—·044, 4·8, 76·5 and 8·5.	+·011, 4·7, 76·4 and 8·6.
Lashio	1, 2, 4, 6, 7, 8, 13, 14 and 15.	26·926, —·034, 4·1, 70·0, 80·5, —2·6, 86, —2 and 9·6.	26·923, +·020, 4·0, 69·9, 80·6, —2·5, 85, —3 and 9·3.
Bhamo	1, 2, 4, 5, 6, 13 and 14.	29·253, —·039, 1·2, 78·7, 76·9, 92 and —1.	29·259, +·012, 1·1, 78·6, 77·0, 93 and 0.
Myitkyina . . .	2, 4, 5, 6, 13 and 14.	—·032, 3·0, 77·2, 76·0, 94 and +2.	+·017, 2·3, 77·0, 75·9, 95 and +3.
Maymyo . . .	2, 4, 6, 10, 11, 15, 16 and 17.	—·023, 2·9, 69·6, 67·4, +1·4, 6·6, 4·31 and —1·97.	+·031, 1·0, 69·5, 67·3, +1·3, 7·2, 4·32 and —1·96.
Silchar	16, 17, 18 and 19.	23·37, +3·63, 28 and +5·4.	23·65, +3·91, 29 and +6·4.
Cox's Bazar . . .	16 and 17.	51·16 and +16·27.	51·22 and +16·33.
Barisal	16, 17, 18 and 19.	14·95, —0·65, 28 and +7·6.	15·13, —0·47, 29 and +8·6.
Jessore		*Omit* the figures in columns 8 and 11.	
Berhampore . . .	16 and 17.	14·74 and +3·89.	14·77 and +3·92.
Mymensingh . . .	16.	13·49.	18·49.
Jalpaiguri . . .	16, 17, 18 and 19.	33·98, +2·70, 26 and +4·1.	35·98, +4·70, 27 and +5·1.
Cuttack	16 and 17.	9·89 and —1·82.	9·91 and —1·80.
Darbhanga . . .	16 and 17.	22·84 and +11·20.	23·17 and +11·53.

JULY 1931—*contd.*

Reference.	Figure Column.	For	Read
Allahabad . . .	10 and 11.	80·8 and +1·0.	81·0 and +1·2.
Cawnpore . . .	7 and 8.	94·5 and +0·7.	95·0 and +1·2.
Lucknow . . .	16 and 17.	5·86 and —5·59.	5·62 and —5·83.
Mainpuri . . .	10, 11, 16 and 17.	77·8, —2·8, 6·42 and —0·88.	77·4 (*b*), —3·2, 6·44 and —0·86.
Bareilly . . .	16, 17, 18, 19 and 20.	9·36, —4·03, 11, —1·5 and 2·23.	11·81, —1·58, 14, +1·5 and 2·60.
Meerut	16 and 17.	4·62 and —4·47.	4·68 and —4·41.
Ludhiana . . .	1, 2 and 4.	28·661 (*b*), —·014 and 5·7.	28·662, —·013 and 2·9.
Sialkot	7 and 8.	96·2 and —1·5.	96·4 and —1·3.
Multan	10 and 11.	83·3 and —1·2.	83·1 and —1·4.
Khanpur . . .	1, 4, 5, 7 and 10.	29·154, 7·9, 89·6, 107·3 and 83·3.	29·160, 7·6, 89·5, 107·1 and 83·2.
Srinagar . . .	16 and 17.	6·57 and +4·25.	6·52 and +4·20.
Sonamarg . . .	16, 17 and 20.	8·89, +5·22 and 3·00.	8·79, +5·12 and 2·81.
Leh	10 and 11.	69·7 and —7·2.	69·8 and —7·1.
Gilgit	16, 17, 18 and 19.	2·15, +1·67, 5 and +3·4.	2·05, +1·57, 4 and +2·4.
Dalbandin . . .	1.	27·748.	26·748.
Jaipur	1 and 2.	28·115 and +·008.	28·114 and +·007.
Veraval . . .	18.	16.	11.
Sutna	16 and 17.	12·71 and —0·98.	12·75 and —0·94.
Akola	16, 17, 18 and 19.	9·54, +0·27, 16 and +4·0.	9·64, +0·37, 17 and +5·0.
Khandwa . . .	16, 17, 18 and 19.	15·45, +6·84, 15 and +4·0.	15·55, +6·94, 16 and +5·0.
Seoni	10, 11, 16 and 17.	72·9, +0·6, 12·99 and —2·24.	72·7, +0·4, 13·89 and —1·34.
Pendra	1, 2, 4, 7, 8 and 9.	27·536, +·011, 4·2, 85·4 (*s*), +1·8 and 89.	27·535, +·010, 4·0, 85·3, +1·7 and 96.
Kanker . . .	10.	74·4.	74·3.
Malegaon . . .	4.	6·8.	6·6.
Raichur. . . .	3 and 5.	S 47 W and 78·5.	S 45 W and 78·4.
Hyderabad (Dn.) . .	5.	75·8.	75·7.
Pamban . . .	15.	4·2.	4·1.
Madura . . .	3, 15, 16, 17, 18 and 19.	N 72 W, 7·0, 2·38, +0·46, 5 and +2·4.	N 74 W, 7·1, 1·93, +0·01, 4 and +1·4.
Coimbatore . . .	3.	S 31 W.	S 34 W.
Madras	10, 11 and 12.	78·4, —0·5 and 70.	78·6, —0·3 and 74.
Cuddapah . . .	1 and 2.	29·308 and +·030.	29·309 and +·031.
Masulipatam . . .	15.	7·6.	5·8.

JULY 1931—*concld.*

Reference.	Figure Column.	For	Read
Vizagapatam . . .	4, 10, 11 and 12.	5·0, 78·0, —0·6 and 71.	5·1, 78·4, —0·2 and 74.
Calingapatam. . .	1 and 2.	29·597 and +·034.	29·594 and +·031.
Gopalpur . . .	10 and 11.	80·0 and +0·8.	79·9 and +0·7.
Simla	16 and 17.	6·69 and —10·19.	6·71 and —10·17.
Murree	15, 16, 17, 18, 19 and 20.	3·9, 17·97, +6·13, 13, +0·5 and 7·20.	2·8, 22·37, +10·53, 15, +2·5 and 8·75.
Cherat	1, 2, 16, 17 and 20.	25·449, —·006, 2·51, —0·96 and 1·05.	25·446, —·009, 2·48, —0·99 and 1·06.
Parachinar . . .	1, 2, 4, 5, 6, 7, 8, 10, 11, 13, 14, 15, 16, 17, 18 and 19.	24·242, +·005, 2·9, 75·9, 63·6, 85·1, —2·0, 63·3, —3·0, 51, —6, 2·0, 4·84, +1·46, 8 and +1·5.	24·241, +·004, 2·8, 75·6, 63·5, 84·9, —2·2, 63·1, —3·2, 52, —5, 2·3, 5·12, +1·74, 9 and +2·5; *Omit* (c) against the Station.
Cooncor . . .	1.	23·376.	24·376.

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Reference.	Figure Column.	For	Read
Tavoy	1, 2, 4 and 5.	29·729, —·059, 2·9 and 76·6.	29·730, —·058, 2·3 and 76·5.
Amherst . . .	1, 4, 6, 13 and 15.	29·651, 9·6, 76·3, 94 and 9·9.	29·650, 9·5, 76·2, 93 and 9·7.
Rangoon . . .	1, 2, 5 and 15.	29·675, —·059, 78·8 and 9·7.	29·676, —·058, 78·9 and 9·5.
Bassien . . .	4, 6, 13, 14 and 15.	3·4, 76·9, 92, —1 and 9·2.	3·3, 76·9, 93, 0 and 9·3.
Diamond Island . .	1, 4, 5 and 15.	29·627, 7·9, 80·4 and 9·6.	29·628, 8·1, 80·3 and 9·7.
Gwa	1, 4, 5, 6, 7 and 13.	29·660, 3·7, 78·7, 77·7, 83·8 and 95.	29·659, 3·2, 78·5, 77·6, 83·7 and 9[illegible].
Toungoo . . .	6, 15, 16 and 17.	77·0, 9·3, 15·74 and —3·38.	77·1, 9·4, 15·87 and —3·25.
Kyaukpyu . . .	1, 2, 4 and 15.	29·604, —·069, 4·8 and 9·2.	29·603, —·070, 4·9 and 9·1.
Akyab	1, 2, 3, 4, 6, 13, 14 and 15.	29·578, —·082, S 28 E (*b*), 9·9, (*b*) 77·7, 93, —1 and 9·7.	29·579, —·081, S 27 E, 9·9, 77·8, 94, 0 and 9·8.
Page 61 . . .	*Omit* the footnote "(*b*) mean of 30 days".		
Minbu	4 and 15.	5·4 and 5·8.	4·7 and 6·1.
Yamethin . . .	5, 6, 11 and 15.	79·8, 75·9, +1·8 and 7·7.	79·7, 75·8, +1·0 and 7·9.
Mandalay . . .	1, 2, 5, 13, 14 and 15.	29·362, —·081, 83·5, 77, —2 and 7·9.	29·367, —·076, 83·6, 76, —3 and 6·3.
Monywa . . .	1, 2 and 15.	29·332, —·049 and 7·4.	29·341, —·070 and 7·7.
Lashio	1, 2, 4 and 15.	26·875, —·056, 2·8 and 8·8.	26·874, —·057, 2·5 and 8·5.
Bhamo	1, 2, 3, 5, 13 and 14.	29·219, —·068, N 27 E, 79·6, 92 and —1.	29·222, —·065, N 38 E, 79·5, 93 and 0.
Myitkyina . . .	1, 2, 4, 5, 6 and 15.	29·130, —·059, 2·8, 80·3, 77·8 and 9·2.	29·129, —·060, 2·2, 80·1, 77·7 and 9·3.
Maymyo . . .	1, 2, 4, 5, 6, 10, 11 and 15.	26·219, —·047, 1·3, 72·1, 70·0, 68·1, +2·2 and 6·7.	26·217, —·049, 1·2, 72·0, 69·9, 68·2, +2·3 and 7·3.
Dhubri	16, 17, 18 and 19.	7·95, —5·59, 10 and —4·5.	8·13, —5·41, 11 and —3·5.
Silchar	1, 2, 4, 5, 7, 8, 10, 11, 16 and 17.	29·498, —0·62, 1·9, 82·2, 92·1, +2·5, 77·0, +1·1, 11·55 and —8·20.	29·495, —·065, 2·0, 82·3, 92·2, +2·6, 78·0, +1·2, 11·71 and —8·04; *Omit* (*b*) against the Station.
Cox's Bazar . . .	3.	S·29 E.	S 32° E.
Barisal	16 and 17.	18·07 and +4·45.	18·02 and +4·40.
Jessore	*Omit* the figures in columns 8 and 11.		
Mymensingh . . .	16, 17, 18 and 19.	11·20, —4·41, 14 and —5·1.	10·86, —4·78, 13 and —6·1.
Jalpaiguri . . .	16, 17, 18 and 19.	29·54, +4·50, 20 and +0·1.	30·79, +5·75, 21 and +1·1.
Cuttack	16 and 17.	18·65 and +4·99.	18·67 and + 5·01.
Sambalpur . . .	16 and 17.	35·58 and +16·39.	35·59 and +16·40.
Ranchi	16 and 17.	11·25 and —1·92.	11·19 and —1·98.
Hazaribagh . . .	16, 17, 18 and 19.	15·51, +2·37, 17 and —0·8.	15·92, +2·78, 18 and +0·2.

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Reference.	Figure Column.	For	Read
Darbhanga . . .	16 and 17.	6·77 and —7·19.	6·88 and —7·08.
Gaya	16 and 17.	10·16 and —3·06.	10·26 and —2·96.
Bahraich . . .	16 and 17.	4·24 and —9·01.	4·29 and —8·96.
Bareilly . . .	16, 17, 18 and 19.	8·27, —4·00, 12 and —·02.	9·87, —2·40, 13 and +0·8.
Jhansi	16 and 17.	13·00 and +1·75.	13·34 and +2·09.
Khanpur . . .	1, 4, 5, 7 and 15.	29·157, 6·6, 89·6, 105·1 and 4·4.	29·156, 6·8, 89·4, 105·4 and 4·2; *Omit* (*b*) against the Station.
Jaipur	1 and 2.	28·100 and —·070.	28·099 and —·071.
Chaman . . .	15.	1·3.	0·8.
Kalat	1, 2, 10 and 11.	23·553, —·027, 57·7 and +5·5.	23·550, —·030, 57·6 and +5·4.
Neemuch . . .	16 and 17.	28·97 and +20·14.	29·00 and +20·17.
Bhopal	10 and 12.	73·8 and 73.	73·7 and 72.
Surat	16 and 17.	9·48 and —3·30.	9·51 and —3·27.
Jhalrapatan . . .	16.	21·74.	21·77.
Akola	16 and 17.	8·94 and +2·51.	8·98 and +2·55.
Surat	16 and 17.	15·84 and + 8·29.	15·85 and +8·30.
Hoshangabad . .	15.	9·7.	7·2.
Kanker . . .	1.	28·252.	28·249.
Madura . . .	10, 11, 12 and 15.	78·7, +2·7, 70 and 7·8.	78·9, +2·9, 73 and 7·7.
Cocanada . . .	16 and 17.	6·53 and +1·04.	6·54 and +1·05.
Mukteswar . . .	1 and 2.	22·697 and —·019.	22·695 and —·021.
Mussooree . . .	3, 16 and 17.	S 13 W, 37·64 and +11·20.	S 13 E, 38·45 and +12·01.
Kodaikanal . . .	16 and 17.	5·61 and —1·38.	5·63 and —1·36.
Coonoor . . .	1.	23·360.	24·360.

SEPTEMBER 1931.

Reference.	Figure Column.	For	Read
Mergui	1 and 2.	29·753 and —·017.	29·752 and —·018.
Tavoy	4, 5, 13, 14 and 15.	1·9, 78·5, 91, —2, and 7·8.	1·5, 78·3, 92, —1 and 8·3.
Amherst . . .	1, 4 and 15.	29·745, 5·7 and 9·8.	29·744, 5·6 and 9·3.
Rangoon . . .	1, 2, 4, 6, 13. 14 and 15.	29·783, +·005, 2·9, 77·9, 92, —1 and 9·2.	29·784, +·006, 2·5, 78·0, 92, 0 and 9·0.
Bassein . . .	4, 10 and 11.	2·9, 76·3 and +0·2.	3·1, 76·5 and +0·4.
Diamond Island . .	2 and 15.	—·006 and 8·4.	+·006 and 8·6.
Gwa	1, 4, 5, 6, 15 and 16.	29·768, 3·8, 80·3, 78·5, 9·1 and 14·61.	29·771, 3·0, 80·6, 78·3, 9·6 and 15·31.
Toungoo . . .	1, 2, 6, 7, 8, 9, 13, 14 and 15.	29·643, +·014, 76·7, 88·1, —0·9, 93, 90, 0 and 9·0.	29·644, +·015, 76·8, 88·0, —1·0, 92, 91, +1 and 9·1.
Kyaukpyu . . .	4, 6, 10, 11, 13, 14 and 15.	3·0, 78·8, 77·3, +0·9, 90, +1 and 7·5.	2·8, 78·6, 77·2, +0·8, 89, 0 and 7·8.
Akyab	4, 5 and 15.	8·1, 80·4 and 8·8.	8·0, 80·5 and 9·0.
Minbu	4, 5, 6 and 15.	3·9, 80·8, 77·7 and 6·4.	3·4, 80·9, 77·6 and 6·5.
Yamethin . . .	1, 2, 4 and 15.	29·135, +·006, 3·7 and 7·7.	29·136, +·007, 3·5 and 8·0.
Mandalay . . .	1, 2, 4, 6, 9 and 15.	29·513, —·010, 3·6, 77·7, 97 and 7·9.	29·518, —·005, 2·3, 77·8, 98 and 6·4.
Monywa . . .	1, 2, 4, 5, 6, 13, 14 and 15.	29·495, +·005, 1·8, 80·9, 77·6, 86, 0 and 7·5.	29·499, +·009, 1·5, 80·8, 77·7, 87, +1 and 7·7.
Lashio	1, 2 and 4.	27·022, +·008 and 2·7.	27·021, +·007 and 20.
Bhamo	4, 5, 6, 13, 14 and 15.	1·5, 78·7, 76·5, 90, —2 and 8·6.	1·3, 78·6, 76·6, 91, —1 and 8·7.
Myitkyina . . .	4 and 15.	2·2 and 9·2.	1·8 and 9·3.
Maymyo . . .	1, 2, 4, 5, 7, 8, 10, 11 and 15.	26·354, +·021, 1·2, 71·3, 78·0, +0·6, 66·7, +2·0 and 6·0.	26·353, +·020, 1·0, 71·2, 77·9, +0·5, 66·6, +1·9 and 6·5.
Cox's Bazar . . .	10 and 11.	76·8 and +1·3.	76·6 and +1·1.
Chittagong . . .	4.	5·6 (*c*).	5·8.
Jessore		*Omit* the figures in columns 8 and 11.	
Jalpaiguri . . .	16, 17, 18 and 19.	22·35, +2·41, 22 and +6·3.	22·55, +2·61, 23 and +7·3.
Cuttack . . .	16 and 17.	9·73 and +0·16.	9·76 and +0·19.
Page 69 . . .		*Omit* the footnote "(*c*) mean of 29 days".	
Gorakhpur . . .	16 and 17.	7·90 and —0·17.	7·60 and —0·47.
Cawnpore . . .	1, 2, 6, 7, 8 and 15.	29·259, —·007, 77·9, 91·3, —0·8 and 4·7.	29·258, —·008, 78·0, 91·2, —0·9 and 4·8; *Omit* (*c*) against the Station.
Bahraich . . .	7, 8, 16, 17, 18 and 19.	88·8, —2·3, 13·08, +4·36, 9 and +2·1.	89·2, —1·9, 13·24, +4·52, 10 and +3·1.
Bareilly . . .	1 and 2.	29·123 and +·012.	29·125 and +·014.
Delhi		*Omit* the figures in columns 8, 11 and 13.	

SEPTEMBER 1931—*contd.*

Reference.	Figure Column.	For	Read
Ludhiana . . .	16 and 17.	3·39 and —0·85.	3·41 and —0·83.
Khushab . . .	16, 17 and 20.	0·71, —0·60 and 0·43.	1·61, +0·30 and +1·03.
Lyallpur . . .	1, 2, 3, 5, 6 and 15.	29·075, +·020, S 7 E, 83·0, 74·9 and 2·1.	29·073, +·018, S 6 E, 83·1, 75·0 and 2·3; *Omit* (*c*) against the Station.
Multan	16, 17 and 20.	0, —0·41 and 0.	0·01, —0·40 and 0·01.
Sonamarg . . .	16, 17, 18 and 19.	3·27, —0·20, 11 and +3·5.	3·08, —0·39, 10 and +2·5.
Bahawalpur . . .	4 and 15.	3·2 and 0·2.	3·0 and 0·3.
Khanpur . . .	1.	29·367.	29·364.
Skardu	16 and 17.	0·18 and —0·54.	0·19 and —0·53.
Gilgit	5.	68·0.	67·8.
Peshawar . . .	4.	2·5.	1·8.
Dera Ismail Khan . .	4.	2·4.	1·7.
Fort Sandeman . .	15.	2·2.	1·7.
Chaman . . .	*Omit* the figures in columns 7, 8 and 9.		
Page 70 . . .	*Omit* the footnotes "(*d*) mean of 28 days" and "(*s*) mean of 13 days".		
Miranshah . . .	1, 5, 6, 7, 10 and 15.	26·680, 80·6, 69·5, 92·5, 70·8 and 0·3.	26·676, 80·8, 69·9, 92·6, 71·1 and 0·2; *Omit* (*d*) against the Station.
Jaipur	3.	N 57 W.	N 64 W.
Deesa	10 and 11.	74·8 and +0·7.	74·6 and +0·5.
Dwarka	7, 8 and 9.	85·4, —0·1 and 95.	85·1, —0·4 and 87.
Rajkot	5, 13 and 14.	78·7, 84 and +4.	78·8, 82 and +2.
Neemuch . . .	4, 10 and 11.	6·0, 71·9 and +0·9.	5·5, 72·2 and +1·2.
Bhopal	1 and 16.	27·090 and 13·65.	28·090 and 14·65.
Sutna	16 and 17.	7·35 and +0·54.	7·36 and +0·55.
Khandwa . . .	3 and 4.	N 81 W and 5·3.	N 82 W and 5·2.
Seoni	16 and 17.	8·43 and —0·61.	8·74 and —0·30.
Raipur	1 and 2.	28·718 and —·010.	28·716 and —·012.
Chanda	1 and 2.	29·039 and —·056.	29·041 and —·054.
Ratnagiri . . .	4.	6·4.	6·0.
Marmagao . . .	1 and 2.	29·622 and —·003.	29·623 and —·002.
Pamban . . .	15.	3·4.	3·6.
Trichinopoly . . .	15.	4·1.	4·2.
Coimbatore . . .	15.	5·6.	5·9.
Vellore	5, 7 and 8.	80·0, 88·7(*n*) and —3·3.	79·8, 88·0 and —4·0.

SEPTEMBER 1931—*concld.*

Reference.	Figure Column.	For	Read
Madras	6.	75·8.	76·0.
Cuddapah . . .	15.	7·1.	6·9.
Bellary	7, 8, 16, 17, 18 and 19.	88·2, —2·5, 4·86, —0·22, 7 and —0·7.	88·4, —2·3, 4·31, —0·77, 6 and —1·7.
Kurnool . . .	7 and 8.	87·7 and —2·2.	87·5 and —2·4.
Masulipatam . . .	16, 17, 18 and 19.	7·53, +1·33, 15 and +5·6.	7·26, +1·06, 14 and +4·6.
Vizagapatam . . .	16, 17, 18 and 19.	5·34, —1·18, 10 and +1·5.	5·68, —0·84, 11 and +2·5.
Calingapatam . .	1 and 2.	29·673 and —·009.	29·671 and —·011.
Gopalpur . . .	4 and 5.	5·8 and 82·7.	5·9 and 82·8.
Simla	16 and 17.	10·49 and +4·29.	10·55 and +4·35
Murree	15.	2·6.	2·3.
Cherat	1 and 2.	25·616 and +·001.	25·613 and —·002.
Parachinar . . .	1, 2, 5, 6, 7, 8, 10, 11, 16 and 17.	24·391, +·013, 72·0, 58·6, 81·5, +0·4, 59·7, +1·0, 1·36 and —0·82.	24·385, +·007, 72·2, 58·8, 81·6, +0·5, 59·9, +1·2, 1·38 and —0·82; *Omit* (*c*) against the Station.
Cooncor . . .	7 and 9.	71·6 and 76.	71·4 and 75.
Page 72 . . .		*Omit* the footnote "(*n*) mean of 18 days".	

OCTOBER 1931.

Reference.	Figure Column.	For	Read
Tavoy	4, 5, 13, 14 and 15.	2·3, 78·9, 79, —10 and 6·3.	1·8, 78·8, 80, —9 and 6·1.
Amherst . . .	4, 6, 13 and 15.	4·9, 75·8, 80 and 6·4.	4·8, 75·8, 79 and 5·8 and *insert* (e) against the Station.
Page 77 . . .		*Insert* the footnote "(e) mean of 27 days".	
Rangoon . . .	1, 2, 4, 13 and 14.	29·851, —·001, 2·8, 82 and —8.	29·850, —·002, 2·1, 83 and —7.
Bassein . . .	1, 2, 4, 13 and 14.	29·838, —·001, 3·1, 85 and —7.	29·836, —·003, 2·9, 84 and —8.
Diamond Island . .	4, 5, 6, 13, 14 and 15.	7·2, 81·8, 78·0, 84, 0 and 5·7.	7·1, 81·6, 78·1, 85, +1 and 5·9.
Gwa	1, 4, 5, 7, 12, 13 and 15.	29·853, 3·1, 80·5, 87·9, 68, 83 and 5·6.	29·852, 2·6, 80·3, 88·0, 69, 84 and 5·7.
Toungoo . . .	5 and 6.	79·1 and 75·5.	79·2 and 75·7.
Kyaukpyu . . .	4, 6 and 15.	3·0, 77·5 and 5·6.	3·2, 77·6 and 5·9.
Akyab	1, 2, 4 and 15.	29·834, —·002, 6·3 and 7·0.	29·833, —·003, 6·4 and 6·9.
Minbu	4, 5, 13 and 14.	3·1, 80·6, 79 and —5.	2·7, 80·5, 80 and —4.
Yamethin . . .	4, 5, 6, 7, 8, 10, 11, 13, 14 and 15.	2·1, 78·9, 74·6, 90·2, —0·4, 73·4, —0·4, 81, —6 and 4·4.	1·6, 79·0, 74·7, 89·8, —0·8, 73·5, —0·3, 80, —7 and 4·3.
Mandalay . . .	1, 2, 4, 5, 6, 13 and 14.	29·624, +·003, 1·1, 79·7, 76·7, 87 and +5.	29·623, +·002, 0·8, 79·8, 76·6, 86 and +4.
Monywa . . .	1, 2, 4, 6, 13, 14 and 15.	29·615, +·013, 1·6, 75·8, 86, —1, and 6·2.	29·614, +·012, 1·5, 75·7, 85, —2 and 6·0.
Lashio	4, 5, 6, 10, 11, 13, 14 and 15.	1·7, 69·9, 67·3, 65·3, +1·4, 87, —6 and 6·5.	1·4, 70·1, 67·4, 65·1, +1·2, 86, —7 and 6·3.
Bhamo	1, 2, 4 and 6.	29·501, +·009, 1·5 and 73·7.	29·502, +·010, 1·3 and 73·8.
Myitkyina . . .	4 and 6.	2·7 and 72·8.	2·0 and 72·9.
Maymyo . . .	1, 2, 4, 5, 6, 13, 14 and 15.	26·447, +·031, 1·3, 70·9, 67·0, 81, —10 and 5·6.	26·446, +·030, 1·1, 70·8, 66·9, 82, —9 and 6·0.
Cox's Bazar . . .	5, 10, 11, 16 and 17.	80·3, 75·3, +1·8, 4·44 and —3·02.	81·0, 75·1, +1·6, 4·43 and —3·03.
Narayanganj . . .	1 and 2.	29·825 and —·010.	29·824 and —·011.
Jessore		*Omit* the figures in columns 8 and 11.	
Calcutta . . .	11.	—1·7.	+1·7.
Saugor Island . .	16 and 17.	22·81 and +14·[illegible].	21·76 and +13·62.
Balasore . . .	16 and 17.	13·35 and +7·[illegible].	13·28 and +7·23.
Chaibasa . . .	16 and 17.	3·50 and +0·[illegible].	3·56 and +0·62.
Ranchi	16 and 17.	8·79 and +5·[illegible].	7·89 and +5·05.
Naya Dumka . .	19.	1·5.	—1·5.
Bareilly . . .	1 and 2.	29·303 and +·[illegible]	29·305 and +·027.
Dehra Dun . . .	16, 17, 18 and 19.	2·76, +1·69, 5 ..6.	2·93, +1·86, 6 and +4·6.

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Reference.	Figure Column.	For	Read
Ambala . . .	1, 2, 3, 5, 6, 10, 11, 15, 16, 17, 18 and 19.	28·974, +·020, S 67 E, 74·3, 67·7, 66·0, +4·6, 2·7, 1·38, +0·63, 1 and +0·3.	29·972, +·018, S 60 E, 74·8, 68·4, 66·9, +55, 2·9, 1·61, +0·86, 2 and +1·3; *Omit* (e) against the Station.
Lahore	15.	2·5.	2·2.
Rawalpindi . . .	4.	2·6.	2·0.
Khushab . . .	1 and 2.	29·259 and +·013.	29·257 and +·011.
Lyallpur . . .	4.	2·4.	2·5.
Montgomery . . .	15.	0·8.	1·0.
Bahawalpur . . .	15.	0·5.	0·9.
Dras	4.	4·9.	4·4.
Peshawar . . .	1, 2, 16 and 17.	28·724, +·002, 1·92 and +1·76.	28·725, +·003, 1·95 and +1·79.
Dera Ismail Khan . .	4, 6, 10, 11, 13 and 14.	2·5, 66·1, 63·8, +2·3, 58 and —2.	1·5, 65·8, 63·9, +2·4, 56 and —4.
Fort Sandeman . . .	1, 2 and 15.	25·441, +·013 and 1·1.	25·436, +·008 and 0·9.
Chaman . . .	4, 10, 11 and 15.	3·1, 55·5, +3·5 and 0·2.	3·3, 54·8, +2·8 and 0·3.
Miranshah . . .	1, 5, 6, 7, 10 and 15.	26·899, 69·9, 58·9, 82·0, 58·0 and 0·2.	26·896, 70·0, 59·1, 82·5, 58·2 and 0·3.
Kalat	16 and 17.	1·34 and +0·78.	1·35 and +0·79.
Jhalrapatan . . .	1.	28·804.	28·803.
Bhuj	10 and 11.	72·2 and +16.	72·3 and +1·7.
Dwarka . . .	10 and 11.	74·4 and —1·6.	74·5 and —1·5.
Kotah	1, 2, 6, 16 and 17.	29·017, —·015, 70·0, 1·34 and +0·78.	29·019, —·013, 70·1, 1·39 and +0·83.
Veraval . . .	6.	73·1.	73·2.
Surat	3.	N 78 E.	N 85 E.
Neemuch . . .	3.	N 47 E.	N 44 E.
Nowgong . . .	7, 10 and 11.	88·3 (*b*), 66·8 and +1·6.	88·3 (*c*), 66·7 and +1·5.
Sutna	16, 17, 18 and 19.	2·67, +0·57, 4 and +1·8.	2·86, +0·76, 5 and +2·8.
Saugor	4, 16, 17, 18 and 19.	3·8, 5·59, +4·57, 9 and +7·2.	4·4, 5·74, +4·72, 10 and +8·2.
Seoni	16, 17, 18, 19 and 20.	5·33, +3·44, 11, +8·1 and 1·74.	8·78, +6·89, 13, +10·1 and 1·77, and *Insert* 27·813 and —·032 in columns 1 and 2.
Pendra	16, 17, 18 and 19.	9·32, +6·46, 11 and +7·5.	9·72, +6·86, 12 and +8·5.
Chanda . . .	1 and 2.	29·155 and —·071.	29·153 and —·073.
Jagdalpur . . .	1 and 2.	27·983 and —·060.	27·986 and —·057.
Ratnagiri . . .	6, 13 and 14.	74·3, 72 and —5.	74·5, 74 and —3.
Sholapur . . .	16 and 17.	3·19 and —0·04.	3·21 and —0·02.

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Reference.	Figure Column.	For	Read
Bijapur . . .	15.	5·7.	5·6.
Belgaum . . .	15.	5·5.	5·7.
Raichur. . . .	1 and 2.	28·530 and —·012.	28·532 and —·014.
Madura . . .	5, 6, 10, 11, 13 and 14.	85·2, 72·0, 76·6, +2·4, 51 and —25.	80·5, 72·3, 76·8, +2·6, 66 and —10.
Salem	15.	5·6.	5·7.
Masulipatam . . .	16, 17, 18 and 19.	12·69, +4·59, 11 and +2·7.	13·24, +5·14, 12 and +3·7.
Vizagapatam . . .	15, 16 and 17.	7·8, 14·17 and +7·10.	7·7, 14·21 and +7·14.
Calingapatam. . .	1, 2, 4, 5, 6, 7, 8, 15, 16, 17, 18 and 19.	29·797, —·025, 7·4, 80·4, 77·3, 86·0, —2·6, 6·9, 11·84, +4·72, 9 and +2·0.	29·784, —·038, 7·6, 80·3, 77·5, 86·4, —2·2, 6·7, 14·57, +7·45, 10 and +3·0; *Omit* (*c*) against the Station.
Gopalpur . . .	5, 10 and 11.	80·0, 76·2 and +1·5.	80·1, 76·0 and +1·3.
Murree	15.	2·8.	2·6.
Cherat	1 and 2.	25·757 and +·027.	25·746 and +·016.
Parachinar . . .	1, 2, 5, 6, 7, 8, 10, 11, 13, 14, 15, 16, 17, 18 and 19.	24·511, +·033, 62·3, 50·5, 74·8, +0·3, 50·7, +1·9, 43, +2, 2·0, 1·95, +1·08, 5 and +2·8.	24·514, +·036, 61·7, 50·3, 73·9, —0·6, 50·2, +1·4, 44, +3, 2·2, 2·17, +1·30, 6 and +3·8; *Omit* (*c*) against the Station.
Mount Abu . . .	6, 13 and 14.	60·4, 50 and +6.	60·0, 48 and +4.

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Reference.	Figure Column.	For	Read
Victoria Point . .	1, 2, 6, 10, 11 and 15.	29·753, +·027, 74·9, 74·3, —0·2 and 4·4.	29·752, +·026, 74·8, 74·4, —0·1 and 4·5; *Omit* (c) against the Station.
Page 85 . . .		*Omit* the footnote "(c) mean of 29 days."	
Tavoy	1, 2, 4 and 15.	29·907, +·012, 2·1 and 4·1.	29·906, +·011, 1·9, and 3·8.
Amherst . . .	4, 5, 6, 13 and 15.	5·3, 78·9, 71·8, 70 and 2·6.	5·1, 78·8, 71·7, 69 and 2·5.
Rangoon . . .	4, 6, 13, 14 and 15.	2·9, 70·8, 76, —10 and 1·5.	2·8, 70·6, 75, —11 and 1·3.
Bassein . . .	1, 2, 4, 5, 6, 13, 14 and 15.	29·927, +·027, 3·1, 78·0, 71·6, 72, —15 and 1·7.	29·925, +·025, 2·7, 77·9, 71·7, 73, —14 and 1·4.
Diamond Island . .	1, 2, 4 and 15.	29·883, +·016, 8·2 and 1·6.	29·884, +·017, 8·1 and 1·7.
Gwa	4, 5 and 6.	2·9, 75·3 and 71·7.	2·5, 75·2 and 71·6.
Toungoo . . .	1, 2, 6, 7, 8, 13, 14 and 15.	29·812, +·036, 67·6, 86·6, —0·2, 83, —6 and 2·9.	29·811, +·035, 67·7, 86·8, 0, 84, —5 and 2·8.
Kyaukpyu . . .	4 and 12.	3·2 and 67.	3·4 and 69.
Akyab	1, 2, 4, 5, 13, 14 and 15.	29·941, +·032, 5·0, 73·4, 85, —5 and 3·8.	29·942, +·033, 4·9, 73·3, 86, —4 and 3·7.
Minbu	1, 2, 4, 5, 10, 11 and 15.	29·803, +·013, 3·7, 73·3, 66·0, —2·9 and 1·6.	29·802, +·012, 3·5, 73·2, 66·1, —2·8 and 1·3.
Yamethin . . .	3, 4, 5, 13, 14 and 15.	N 5 W, 2·3, 71·0, 80, —6 and 2·6.	N 7 W, 1·9, 71·1, 79, —7, and 2·5.
Mandalay . . .	1, 2, 4, 6, 13 and 14.	29·727, +·022, 1·2, 66·7, 87 and +3.	29·728, +·023, 0·6, 67·4, 91 and +7.
Monywa . . .	1, 2 and 4.	29·726, +·034 and 1·7.	29·725, +·033 and 1·4.
Lashio	1, 2, 4, 5, 7, 8, 13, 14 and 15.	27·188, +·019, 2·0, 59·0, 75·9, —1·3, 87, —6, and 4·7.	27·190, +·021, 1·5, 59·1, 75·8, —1·4, 86, —7 and 4·4.
Bhamo	1, 2, 4, 5, 13 and 14.	29·616, +·025, 1·5, 65·1, 86 and —6.	29·615, +·024, 1·3, 64·9, 87 and —5.
Myitkyina . . .	1, 2, 4, 6 and 15.	29·534, +·031, 1·7, 61·8 and 4·7.	29·533, +·030, 1·6, 61·9 and 4·6.
Maymyo . . .	4, 6, 7, 8, 13, 14 and 15.	1·1, 58·7, 75·4, +2·1, 87, —4 and 1·8.	0·9, 58·6, 74·8, +1·5, 86, —5 and 1·5.
Sibsagor . . .	16 and 17.	1·78 and +0·68.	1·80 and +0·70.
Cox's Bazar . . .	10 and 11.	65·5 and —1·9.	65·3 and —2·1.
Jessore	..	*Omit* the figures in columns 8 and 11.	
Ranchi	1, 16 and 17.	27·812, 0·87 and +0·49.	27·812 (c), 0·80 and +0·42.
Gauhati. . . .		*Insert* 0 in column 20.	
Dhubri		*Insert* 0 in column 20.	
Jalpaiguri . . .		*Insert* 0 in column 20.	
Ambala . . .	4, 5, 6, 7 and 8.	2·9, 58·6, 52·4, 83·3 and +1·4.	2·8, 58·7, 52·5, 83·4 and +1·5; *Omit* (c) against the Station.
Bahawalpur . . .	15.	0·9.	1·0.

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Reference.	Figure Column.	For	Read
Dras	16, 17, 18 and 19.	0·53, +0·09, 1 and —0·2.	0·78, +0·34, 2 and +0·8.
Gilgit	7 and 8.	60·6 and —2·3.	60·7 and —2·2.
Dêra Ismail Khan	15.	2·2.	2·1.
Miranshah	1, 5, 6, 7, 10 and 13.	27·049, 54·9, 46·0, 1·9, 45·7 and 48.	27·030, 54·4, 45·9, 75·9, 45·9 and 50.
Fort Sandeman	4.	1·0.	1·1.
Quetta	3, 7 and 8.	S 34 E, 67·1 and +3·0.	S 39 E, 67·0 and +2·9.
Chaman	10 and 11.	47·0 and +4·8.	46·3 and +4·1.
Kalat	1, 2 and 15.	23·808, +004 and 1·8.	23·809, +005 and 1·5.
Kotah	15.	1·3.	1·5.
Jhalrapatan	16, 18 and 20.	0·04, 0 and 0·04.	0·22, 1 and 0·18.
Deesa	4.	4·4.	4·2.
Surat	3 and 15.	N 71 E and 2·0.	N 70 E and 2·6.
Bhavnagar	15.	2·5.	2·7.
Ahmadabad	15.	1·6.	1·8.
Indore	16 and 17.	1·07 and +0·66.	1·08 and +0·67.
Nowgong	7 and 8.	79·7 (*g*) and —2·4.	79·9 (*g*) and —2·2.
Pendra	15.	1·7.	1·9.
Seoni	7, 8, 10, 11, 16, 17, 18, 19 and 20.	79·8, —1·7, 55·5, 0, 0·67, +0·08, 1, +0·1 and 0·66.	79·6, —1·9, 55·9, +0·4, 2·29, +1·70, 2, +1·1 and 1·64.
Raipur	5.	68·6.	68·8.
Kanker	4.	3·1.	3·0.
Chanda	1, 2 and 15.	29·332, +·003 and 2·1.	29·337, +·008 and 2·2.
Jagdalpur	15.	4·5.	4·6.
Malegaon	10, 11, 16 and 17.	59·1, +1·4, 2·64 and +2·03.	58·9, +1·2, 1·64 and +1·03.
Ahmadnagar	1 and 2.	27·814 and +·009.	27·815 and +·010.
Sholapur	16 and 17.	2·37 and +1·32.	3·42 and +2·37.
Bijapur	4.	2·6.	2·7.
Aurangabad	10 and 11.	60·7 and +0·7.	60·5 and +0·5.
Trivandrum	16, 17, 18 and 19.	6·81, +0·22, 7 and —2·5.	7·27, +0·68, 8 and —1·5.
Pamban	16 and 17.	14·48 and +2·48.	14·50 and +2·50.
Coimbatore	15.	6·9.	7·1.
Salem	4.	3·3.	4·9.
Cuddalore	15.	6·8.	6·7.

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Reference	Figure Column.	For	Read
Vellore	1, 2 and 15.	29·211, +0·08 and 6·8.	29·212, +0·09 and 6·9.
Madras	10 and 11.	73·4 and +0·9.	73·2 and +0·7.
Cuddapah . . .	4, 16 and 17.	4·0, 0·90 and —2·66.	4·1, 0·98 and —2·58.
Kurnool . . .	7 and 8.	85·7 and —2·5.	86·0 and —2·2.
Vizagapatam . . .	6, 13 and 14.	70·9, 77 and +12.	70·5, 75 and +10.
Calingapatam. . .	4.	6·4.	6·1.
Gopalpur . . .	3, 4, 5, 7, 8, 10, 11, 13 and 14.	N 18 W, 5·6, 72·6, 84·0, +0·3, 67·5, +0·2, 83 and +4.	N 19 W, 5·2, 72·8, 84·1, +0·4, 67·6, +0·3, 81 and +2.
Simla	1, 2, 5, 6, 10 and 11.	23·162, +·009, 51·5, 39·3, 45·6 and +1·7.	23·163, +·010, 51·4, 39·4, 45·5 and +1·6; *Omit* (c) against the Station.
Cherat	7, 8, 10, 11 and 12.	64·1, —1·8, 50·0, +0·7 and 46.	64·6, —1·3, 50·2, +0·9 and 47.
Parachinar . . .	1, 2, 3, 4, 5, 6, 7, 8, 15, 16 and 17.	24·556, +·045, N 68 W, 3·0 (*m*), 50·3, 40·9, 64·0, —0·8, 3·7, 0·57 and +0·06.	24·554, +·043, S 79 W, 3·0 (*l*), 50·2, 40·8, 64·1, —0·7, 3·8, 0·65 and +0·14; *Omit* (*d*) against the Station.
Drosh	16, 17, 18 and 19.	0·26, —0·10, 1 and —0·3.	0·41, +0·05, 2 and +0·7.
Mount Abu . . .	6, 13 and 14.	54·6, 40 and 0.	54·3, 37 and —3.
Page 88 . . .	*Insert* the footnote "(*l*) mean of 20 days" and *omit* "(*m*) mean of 19 days."		

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Reference.	Figure Column.	For	Read
Page 92, Konkan . .	Rainfall—Departure from normal.	+1·95.	+1·75.
Port Blair . . .	7, 8, 10 and 11.	83·9, —1·7, 76·9 and +0·4.	84·0, —1·6, 76·7 and +0·2.
Mergui	10, 11 and 15.	70·1, +2·3 and 2·1. (i)	70·3, +2·5 and 2·3. (j)
Page 93 . . .		*Omit* the footnotes (*i*) mean of 23 days and insert (*j*) mean of 22 days.	
Tavoy	1, 2, 4, 5, 6 and 15.	29·910, —·015, 2·4, 76·4, 79·9 and 3·1.	29·909, —·016, 2·1, 76·3, 69·8 and 3·0.
Amherst . . .	4, 5, 6, 13 and 15.	5·9, 75·5, 69·6, 73 and 4·7.	5·4, 75·3, 69·4, 72 and 4·4.
Rangoon . . .	1, 2, 4 and 15.	29·935, —·014, 3·1 and 3·6.	29·934, —·015, 2·8 and 3·4.
Bassein . . .	1, 2 and 4.	29·930, —·016 and 3·2.	29·929, —·015 and 3·8.
Diamond Island . .	4, 5 and 15.	9·5, 76·7 and 3·4.	9·3, 76·8 and 3·5.
Gwa	4 and 15.	3·2 and 3·6.	2·5 and 3·5.
Taungoo . . .	6, 13, 14 and 15.	65·7, 83, —6 and 4·5.	65·9, 84, —5 and 4·6.
Kyaukpyu . . .	1, 2, 4, 5, 7, 8, 10, 11, 13 and 14.	29·937, —·010, 3·9, 74·5, 82·5, +2·5, 71·4, +4·7, 79 and —3.	29·936, —·011, 4·0, 74·4, 82·4, 71·3, +4·6, 80 and —2.
Akyab	6, 13, 14 and 15.	66·8, 86, —4 and 4·9.	66·9, 87, —3 and 4·8.
Minbu	1, 2, 4, 5, 6, 13 and 14.	29·818, —·024, 5·2, 69·7, 64·2, 73 and —5.	29·819, —·023, 5·0, 69·8, 64·2, 72 and —6.
Yamethin . . .	1, 2, 4, 5, 6, 7, 8, 10, 11, 13, 14 and 15.	29·327, —·008, 2·6, 66·7, 62·4, 83·7, +0·2, 62·0, +3·5, 77, —8 and 3·9,	29·328, —·007, 2·5, 66·8, 62·5, 84·0, +0·5 61·7, +3·2, 78, —7 and 4·0.
Mandalay	4, 5, 6, 13 and 14.	1·2, 66·1, 64·3, 90 and +5.	1·0, 66·2, 64·8, 92 and +7.
Monywa . . .	4 and 15.	2·5 and 2·9.	2·1 and 3·0.
Lashio	4, 7, 8, 13, 14 and 15.	1·5, 73·2, 0, 94, 0 and 5·9.	1·3, 73·1, —0·1, 92, —2 and 5·3.
Bhamo	4, 5, 13, 14 and 15.	2·0, 59·3, 93, —2 and 7·2.	1·5, 59·2, 94, —1 and 7·3.
Myitkyina . . .	4, 5, 6, 13, 14 and 15.	3·0, 59·8, 57·7, 87—3 and 4·4.	2·6, 59·6, 57·6, 88,—2 and 4·3.
Maymyo . . .	1, 2, 4, 6, 13, 14 and 15.	26·480, +·014, 1·1, 54·9, 96, +3 and 3·4.	26·479, +·013, 1·0, 54·8, 95, +2 and 3·6.
Silchar	15.	2·2.	2·0.
Cox's Bazar . . .	2, 8, 10, 11, 17 and 19.	—·028, +0·7, 62·2, +5·7, +1·13 and +1·8.	—·007, +0·9, 62·0, +3·8, +0·53 and +1·4.
Chittagong . . .	2, 11, 14, 19 and 20.	—·023, +4·7, —4, —0·5 and 0·07.	—·019, +2·7, —5, —0·8 and 0·58.
Narayanganj . . .	8, 11, 16, 17 and 19.	+2·7, +4·0, 0·01, —0·29 and —0·9.	+2·4, +2·3, 0, —0·19 and —0·5.
Barisal	2, 11, 14 and 17.	—·024, +4·5, —2 and —0·33.	—·021, +3·5, —1 and —0·31.
Jessore . . .		*Omit* the figures in columns 8 and 11.	
Calcutta . . .	2, 8, 11, 14, 17 and 19.	—·015, +0·8, +3·8, +1, —0·33 and —0·7.	—·020, +1·3, +3·4, +5, —0·19 and —0·4.

DECEMBER 1931—*contd.*

Reference.	Figure Column.	For	Read
Saugor Island . .	2, 8, 11, 14, 17 and 19.	—·018, +0·3, +2·4, —11, —0·30 and —0·9.	—·023, +0·6, +2·5, —8, —0·27 and —0·5.
Burdwan . . .	2, 8, 11, 14, 15, 17 and 19.	—·022, +0·8, +1·9, +4, 1·0, —0·36 and —0·8.	—·030, +1·1, +1·1, +7, 1·4, —0·15 and —0·3.
Berhampore . . .	16 and 17.	0·13 and +0·01.	0·17 and +0·05.
Mymensingh . . .	2, 8, 11, 17 and 19.	—·011, +4·1, +3·4, —0·29 and —0·9.	—·016, +2·9, +1·7, —0·03 and —0·3.
Bahraich . . .	10 and 11.	50·1 and +2·4.	50·3 and +2·6.
Rawalpindi . . .	4.	3·5.	2·2.
Khanpur . . .	1, 3, 4, 5, 6 and 10.	29·785, N 30 E, 4·4 (*d*), 49·7, 45·4 and 44·0.	29·786, N 31 E, 4·4 (*c*), 49·8, 45·5 and 44·2; *Omit* (*b*) against the Station.
Sonamarg . . .	16 and 17.	0·77 and —4·84.	0·86 and —4·75.
Dera Ismail Khan . .	1, 2, 3, 6, 7, 8, 10, 11, 13 and 15.	29·496, +·005, S 18 W, 41·7 (*c*), 73·9, +2·2, 40·5, —0·1, 58 (*c*), and 2·1.	29·498, +·007, N 19 W, 41·6 (*b*), 73·8, +2·1, 40·4, —0·2, 58 (*b*) and 2·0; *Omit* (*b*) against the Station.
Quetta	7 and 8.	55·9 and +1·0.	55·8 and +0·9.
Chaman . . .	1, 2, 5, 10, 11, 13 and 14.	25·779, —·008, 40·4, 38·3, +3·4, 52 (*n*), and —13.	25·781, —·006, 40·6, 37·6, +2·7, 50 and —15 and *reject* figures in columns 7, 8 and 9.
Kalat	7 and 8.	57·4 and +2·1.	56·4 and +1·1.
Dalbandin . . .	7, 8, 10 and 11.	66·1, +2·3, 35·4 and +2·0.	66·3, +2·5, 33·4 and 0.
Jhalrapatan . . .	1, 5 and 16.	28·973, 58·5 and 0·02.	28·975, 58·6 and 0·03.
Deesa	4, 6 and 15.	1·7, 54·6 and 0·9.	4·9, 54·5 and 0·8.
Bhuj	6.	55·1.	55·5.
Dwarka . . .	4 and 15.	8·2 and 1·5.	8·4 and 1·4.
Veraval . . .	6.	60·8.	60·5.
Surat	6 and 15.	60·5 and 3·2.	60·6 and 3·3.
Ahmadabad . . .	3.	N 61 E.	N 60 E.
Hoshangabad . .	10, 11 and 15.	55·0, +5·3 and 2·9.	55·4, +5·7 and 2·1.
Jubbulpore . . .	10 and 11.	49·1 and +2·4.	48·9 and +2·2.
Pendra	10 and 11.	49·8 and 0.	49·9 and +0·1.
Chanda . . .	3, 5, 6, 7, 8, 10, 11, 13, 14 and 15.	N 7 W, 60·6, 57·5, 79·9, —2·8, 52·0, —0·2, 81, +8 and 1·9.	N 13 W, 60·5, 57·3, 79·8, —2·9, 51·9, —0·3, 80, +7 and 1·8.
Jagdalpur . . .	1 and 2.	28·148 and —·020.	28·149 and —·019.
Ratnagiri . . .	4, 6, 13 and 14.	6·2, 62·5, 48 and —6.	6·6, 65·8, 47 and —7.
Sholapur . . .	4, 10 and 11.	4·3, 58·2 and —0·1.	4·6, 58·0 and —0·3.
Belgaum . . .	1, 2, 3, 4, 5, 7, 8, 10 and 11.	27·394, —·012, N 78 E, 3·2, 66·4, 80·1, —1·7, 60·1 and +1·7.	27·393, —·013, N 76 E, 3·1, 66·3, 80·0, —1·8, 60·2 and +1·8.

DECEMBER 1931—*concld.*

Reference.	Figure Column.	For	Read
Nizamabad . . .	1 and 2.	28·745 and +·031.	28·728 and +·014.
Pamban . . .	7, 8, 16 and 17.	81·5, —1·1, 32·87 and +25·38.	81·4, —1·2, 33·06 and +25·57.
Salem	4.	4·0.	4·9.
Vizagapatam . . .	4.	5·8.	5·9.
Calingapatam. . .	1 and 2.	29·989 and —·009.	29·990 and —·008.
Gopalpur . . .	4.	6·6.	6·4.
Parachinar . . .	1, 2, 6, 10, 11, 13, 14 and 15.	24·528, +·036, 34·9 (*h*), 34·1, +1·9, 54 (*h*), —8 and 4·4.	24·530, +·038, 34·8 (*g*), 34·0, +1·8, 53, —9 and 4·6; *Omit* (*b*) against the Station and *insert* (*g*) mean of 25 days in the footnote.
Mount Abu . . .	7 and 8.	68·9 and +0·7.	69·2 and +1·0.
Kodaikanal . . .	15, 16 and 17.	7·0, 15·67 and +11·25.	7·2, 15·69 and +11·27.
Darjeeling . . .	20.	....	o

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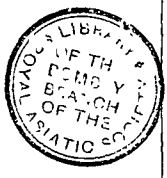

INDIA WEATHER REVIEW

ANNUAL SUMMARY FOR 1932

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SUMMARY OF WEATHER AND RAINFALL

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1933

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ANNUAL SUMMARY, 1932.

PART A.

SUMMARY OF WEATHER AND RAINFALL.

SECTION I.

Chief Features of Weather in 1932.

1. The principal feature of the cold weather months, January and February, was the unusually northerly course of most of the western disturbances during the former month, which resulted in scanty precipitation in the plains of northwest India. During these months, the total rainfall was in large excess in Hyderabad and Mysore, in moderate excess in Burma, normal in Assam, the North-West Frontier Province and the Madras Presidency and in moderate to large defect elsewhere. Averaged over the plains of India as a whole, the rainfall of the period was in defect by 34 per cent.

The unusually northerly course of the western disturbances was also responsible for mild winter conditions in northwest India and its neighbourhood.

2. During the hot weather months, March to May, rainfall was in large excess in the Madras Presidency, in slight to moderate excess in the North-West Frontier Province, the Bombay Presidency and Mysore and normal in Assam, Bengal and Rajputana; it was in slight to moderate defect elsewhere. Over the plains of the country as a whole, there was a defect of 3 per cent in the season's rainfall.

3. In spite of rather weak monsoon in June and a prolonged break in the rains in August, rainfall of the monsoon season, June to September, was, on the whole, well distributed and was within 20 per cent of the normal over the country. Averaged over the plains of India, the season's rainfall was in defect by 3 per cent.

4. During the retreating southwest monsoon period, October to December, rainfall was in moderate to large excess in Bengal, Bihar and Orissa, the Bombay Presidency, Mysore and the Madras Presidency; in slight excess in Assam and Hyderabad and normal in the Punjab; it was in slight defect in Burma and in moderate to large defect elsewhere. Averaged over the plains of India, the total rainfall of the period was in excess by 18 per cent.

5. Taking the year as a whole, rainfall over the country was within 20 per cent of the normal in all sub-divisions except in Mysore, where there was an excess of 32 per cent.

SECTION II.

General Remarks on the weather of 1932.

I. *The cold weather period, January and February.*—Of the nine western disturbances, which entered India during ***January,*** seven took more northerly courses than usual and hence precipitation was in defect in the plains of northwest India. The northeast monsoon was weak during the month.

In ***February*** weather was drier than usual in northwest India despite the eastward passage of six western disturbances. Rainfall during this month was in excess in Hyderabad, Mysore, the Madras Presidency and Burma.

The total rainfall during the cold weather period was in moderate to large excess in Upper Burma, Hyderabad, Mysore and the north Madras coast, in slight excess in Lower Burma and Berar and normal in Assam, Orissa and the North-West Frontier Province. It was in slight to moderate defect in Bengal, Chota Nagpur, the Punjab, Kashmir, east Central India, the west and the east Central Provinces, Malabar, southeast Madras and the Madras Deccan and in large defect elsewhere.

The unusually northerly course of the western disturbances in January was responsible for mild winter conditions in northwest India and its neighbourhood. High day temperatures prevailed in northwest India, the United Provinces and Central India during the second fortnight of January. The mean maximum temperature was above normal in January in Bihar, the United Provinces, the east and north Punjab, the North-West Frontier Province, Baluchistan, Rajputana, Gujarat, Central India and the west Central Provinces.

A well-marked high pressure area (relative to the normal distribution of pressure) lay over Burma, northeast India and the Peninsula in January.

Cloud amount was considerably below normal in Bengal, Bihar and Orissa, the United Provinces, Central India,

the Central Provinces, Hyderabad and Mysore in January and in the Punjab and Sind in February, and above it in Hyderabad in the latter month.

Humidity was in marked defect in Bihar and Orissa, the United Provinces, the Punjab and Rajputana in February.

II. *The hot weather period, March to May.*—In ***March*** seven western disturbances affected weather in northwest India and the associated precipitation was in moderate to large excess in the Punjab, the North-West Frontier Province, Baluchistan, east Rajputana, west Central India and the west Central Provinces.

Six western disturbances entered India during ***April,*** but the precipitation in northwest India was in moderate to large defect. Thunderstorms were active in Burma, Bihar, the west United Provinces, east Central India, the Bombay Deccan and southeast Madras.

During ***May*** three western disturbances affected weather in northwest India; the associated precipitation was in moderate to large excess in Sind, the North-West Frontier Province and Kashmir and in moderate to large defect in the rest of northwest India. With the advance of the monsoon, which was established in Burma on the 23rd, a cyclonic storm formed over the central Bay of Bengal and moved towards Bengal between the 22nd and 25th of May. Also, a depression and a storm formed in the southeast Arabian Sea off Malabar during the second fortnight of the month in connection with a temporary advance of the monsoon there. The month was characterised by unusual activity of thunderstorms some of which proved destructive, especially in the east United Provinces and Bengal.

The total rainfall during the hot weather period, March to May, was in large excess in Malabar, in slight to moderate excess in the Bay Islands, the North-West Frontier Province, Berar, the Konkan, the Bombay Deccan, Mysore and southeast Madras and normal in Assam, Bengal, east Rajputana and the north Madras coast. It was in slight to moderate defect in Burma, Orissa, Chota Nagpur, the west United Provinces, the Punjab, Kashmir, Baluchistan, Sind, west Rajputana, west Central India, the west Central Provinces, Hyderabad and the Madras Deccan and in large defect elsewhere.

The mean maximum temperature was above normal in Kashmir in March and April and in Assam and the North-West Frontier Province in April; it was below normal in southeast Madras in April. The mean minimum temperature was above normal in Kashmir in March.

Cloud amount was considerably above normal in the Bombay Presidency and Hyderabad in April and in Hyderabad and the Madras Presidency in May, and below it in Rajputana and Central India in the latter month.

Air was considerably drier than usual in April in Assam, Bihar and Orissa, the United Provinces, the Punjab and the North-West Frontier Province and in May in Burma, the United Provinces, the Punjab, Sind and Rajputana.

III. *The southwest monsoon period, June to September.*—The Bay monsoon was led into Assam and east Bengal on the 8th ***June*** by a depression which formed in the north Bay on the 7th and moved slowly northwards thereafter. The monsoon current was, on the whole, normally active in Burma, Assam and Bengal during the month. It extended into Bihar and Orissa on the 22nd for two days. The regular advance of the Arabian Sea monsoon occurred on the west coast of the Peninsula on the 2nd. It was, however, weak there till the 16th when it strengthened in the Konkan. It extended into the Bombay Deccan and Hyderabad between the 16th and 18th, into Gujarat on the 21st and into the Central Provinces and west Central India on the next day. This branch of the monsoon was, on the whole, normally active during the month over its whole field of activity, excepting Malabar, where it was weak.

The monsoon rainfall during ***July*** was well-distributed over the country excepting Bihar and the east United Provinces. The formation and movement of a low pressure area to Baluchistan along the west coast of the Peninsula and through Kathiawar and Sind during the first fortnight strengthened the Arabian Sea monsoon on the west coast after the 1st and in the interior of the Peninsula in the course of the next two days; it remained strong in those regions upto the 15th and also extended in northwest India after the 6th. The westward movement of a depression from the north Bay caused strong monsoon in Orissa, the Central Provinces and west Central India between the 7th and 20th and in the north Deccan and northwest India between the 13th and 20th. The activity of the monsoon over most part of the country during the last ten days of the month was controlled by three depressions, two of which moved westwards from the Bay and the third from Bengal. The monsoon was very weak in Bihar and the east United Provinces upto the 26th when it began to strengthen in those areas.

Both branches of the monsoon were active over the country during the first ten days of ***August,*** and an excess of rainfall occurred in Rajputana and the hills of northwest India. A break in the monsoon set in in the Peninsula and Burma after the 10th and generally over the rest of the country a week later, but thunderstorms during the last twenty days of the month brought up the rainfall in the interior of the Peninsula to the normal amount for that period. The monsoon revived in Malabar and Burma at the end of the month.

The movement of a depression from the Bay of Bengal to the United Provinces through the central parts of the country brought in strong monsoon in north and central India during the first fortnight in ***September.*** A storm, which formed at the head of the Bay at the beginning of the second fortnight and broke up in the Punjab-Kumaon hills on the 26th, caused an extension of strong monsoon from Orissa to the east Punjab. After the 25th, the monsoon gradually withdrew from the country. Taking the month as a whole, the monsoon was normally active in Burma, northeast India, the west United Provinces, the east Punjab, Central India and the west of the Peninsula and weak elsewhere.

The total rainfall during the southwest monsoon period was in large excess in Baluchistan, in slight excess in the Bay Islands, the North-West Frontier Province, Sind, Berar, the Bombay Deccan and Mysore, in slight defect in Bengal, Chota Nagpur, east Central India and south Hydera-

bad and in moderate defect in Bihar and the east United Provinces ; it was normal over the rest of the country.

The mean maximum temperature was above normal in Chota Nagpur, the United Provinces, east Central India and the east Central Provinces in June, in the east United Provinces and east Central India in July and in west Rajputana in September, and below it in Upper Burma in July and in west Rajputana in August.

A well marked low pressure area (relative to the normal distribution of pressure) lay over Bengal, Bihar and Orissa and the Central Provinces in July and in Bengal, Bihar and Orissa, the United Provinces, the Punjab, the North-West Frontier Province, Sind, Central India and the Central Provinces in September ; a well marked high pressure area lay over Bihar and Orissa and the Central Provinces in August.

Cloud amount was considerably below normal in Rajputana in June and in the North-West Frontier Province in September and above it in the latter division in July and in Sind in September.

Humidity was considerably in defect in Bihar and Orissa, the United Provinces, the Punjab and the Central Provinces in June and in Rajputana in September.

IV. *The period of retreating southwest monsoon, October to December.*—The transition fron the southwest monsoon to the northeast monsoon was marked by an unusual activity of thunderstorms. An excess of precipitation thus occurred in the Peninsula in ***October***. During this transition period, one storm formed in the Arabian Sea and one storm and one depression in the Bay of Bengal. Four feeble western disturbances also passed eastwards through Kashmir during the month.

During ***November*** two storms formed in the Bay of Bengal. They caused an excess of rainfall in the Peninsula and northeast India. Two western disturbances passed away eastwards through Kashmir without giving any precipitation.

Although four western disturbances affected weather over India in the month of ***December***, precipitation was in defect in northwest India excepting the east and north Punjab and the west United Provinces. The northeast monsoon was active during the month.

The total rainfall during the retreating southwest monsoon period was in large excess in Bengal, Bihar, the Konkan, the Bombay Deccan, Mysore and Malabar, in slight to moderate excess in Assam, Orissa, Chota Nagpur, the east and north Punjab, Gujarat, south Hyderabad, southeast Madras and the north Madras coast and normal in the Bay Islands, north Hyderabad and the Madras Deccan ; it was in slight to moderate defect in Burma, the United Provinces, the southwest Punjab, Kashmir and the Central Provinces and in large defect elsewhere.

The mean maximum temperature was above normal in east Central India in October and December and in the North-West Frontier Province in November ; in November the minimum was above normal in Assam and below it in east Rajputana and east Central India.

Cloud amount was considerably above normal in the Punjab, Sind, Rajputana, the Bombay Presidency, Central India and Hyderabad in October, in northeast India, the United Provinces, the Central Provinces and Hyderabad in November and in Sind in December, and below it in the Punjab and Sind in November and in Bihar and Orissa, the Central Provinces and Hyderabad in December.

Humidity was in marked defect in the North-West Frontier Province and Rajputana in all the months, in Sind in October and December and in the Punjab in November.

TABLE A-1.—*Departure of the mean monthly and annual pressure from the normal in the 15 chief political divisions of India in 1932.*

Division.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
Burma	+·061	+·005	+·035	+·005	—·003	—·023	—·032	+·025	—·029	—·012	—·019	+·001	+·001
Assam	+·049	—·005	+·015	+·007	—·009	—·032	—·036	+·024	—·046	—·012	—·030	—·006	—·007
Bengal	+·050	—·012	+·015	+·013	—·010	—·027	—·051	+·042	—·051	—·011	—·029	—·006	—·006
Bihar and Orissa	+·051	—·013	+·022	+·018	—·005	—·028	—·056	+·050	—·052	—·011	—·038	—·009	—·006
United Provinces	+·040	—·029	+·023	+·016	—·012	—·038	—·029	+·034	—·069	—·011	—·024	—·020	—·010
Punjab	+·036	—·029	+·023	+·004	+·019	—·028	—·016	+·035	—·054	—·010	—·021	—·017	—·005
N.-W. F. Province	+·033	—·033	+·023	0	+·033	—·029	—·025	+·035	—·063	—·008	—·023	—·024	—·007
Sind	+·029	—·040	+·018	+·009	—·007	+·008	—·036	+·028	—·054	—·015	—·017	—·015	—·008
Rajputana	+·044	—·021	+·038	+·033	—·003	+·019	—·021	+·049	—·048	—·008	—·002	—·006	+·007
Bombay	+·055	—·005	+·016	+·021	—·035	+·033	—·044	+·018	—·038	—·028	—·026	+·003	—·003
Central India	+·045	—·022	+·029	+·027	—·015	+·004	—·045	+·045	—·067	—·006	—·016	—·012	—·003
Central Provinces	+·058	—·008	+·024	+·023	—·013	+·010	—·060	+·050	—·060	—·013	—·035	—·011	—·003
Hyderabad	+·082	+·005	+·030	+·031	—·009	+·027	—·033	+·035	—·028	—·011	—·033	+·011	+·009
Mysore	+·053	—·003	+·013	+·016	—·034	+·022	—·031	—·010	—·017	—·022	—·033	+·010	—·003
Madras	+·062	—·001	+·021	+·016	—·015	+·010	—·034	+·008	—·017	—·018	—·041	+·009	0
Mean of India	+·052	—·012	+·025	+·016	—·008	—·005	—·037	+·032	—·044	—·013	—·025	—·005	—·002

TABLE A-2.—*Monthly and annual means of maximum and minimum temperatures*

Division.	January.				February.				March.				April.				May.				June.			
	Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.	
	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.
Burma	83·7	+0·9	59·4	−0·5	85·3	−1·4	62·0	−0·5	91·6	−0·3	68·6	0	94·1	−0·7	74·5	+0·5	94·6	+2·1	77·2	+1·2	87·8	−0·2	76·3	+0·5
Assam	75·0	+0·5	52·3	+1·4	75·5	−1·6	53·0	−1·3	86·4	+2·9	62·1	+0·8	89·7	+4·5	67·7	+0·2	86·5	−0·8	71·6	−0·5	87·9	−0·6	76·2	+0·3
Bengal	80·3	+2·9	55·6	+1·3	81·1	−0·2	57·1	−0·8	92·1	+2·6	67·7	+1·0	95·4	+1·8	73·5	−0·3	93·9	+1·0	77·5	+1·3	90·5	+0·6	79·5	+1·1
Bihar and Orissa	80·6	+3·0	53·9	+0·5	81·5	−0·4	56·1	−1·7	93·0	+1·7	66·3	+0·5	99·2	+0·5	73·2	−0·7	100·7	+0·9	78·7	+0·6	97·4	+3·2	80·7	+1·9
United Provinces	77·8	+5·4	48·3	+1·5	78·5	+1·6	48·4	−1·9	91·0	+2·3	60·5	+1·1	99·9	+0·3	69·4	−0·4	105·2	+1·3	76·7	−0·7	105·8	+5·1	84·4	+3·4
Punjab	72·7	+4·8	44·3	+2·3	73·8	+2·3	45·2	−0·4	84·1	+1·7	57·0	+1·7	97·1	+2·8	67·2	+1·2	101·6	−2·3	72·8	−2·8	109·1	+3·0	83·3	+1·8
N.-W. F. Province	70·8	+4·3	43·0	+2·3	71·2	+2·3	43·3	−0·9	79·4	+1·3	55·5	+1·9	94·2	+5·3	64·7	+1·9	97·8	−2·5	70·0	−2·5	108·4	+2·1	80·7	+1·3
Sind	78·2	+3·0	52·6	+1·9	81·3	+2·9	55·7	+1·2	88·6	+0·4	66·0	+2·1	97·3	+1·8	72·4	+0·4	103·0	+0·3	79·4	+0·9	101·3	−1·7	82·7	−0·3
Rajputana	81·5	+6·7	52·3	+3·4	80·4	+1·6	51·6	−0·9	90·3	+0·4	63·0	+0·5	99·0	−0·9	72·3	−0·7	106·5	+0·3	80·4	−0·7	105·2	+1·1	84·5	+1·3
Bombay	87·1	+2·9	58·5	+0·7	86·2	−0·6	59·4	−0·6	93·1	+0·3	65·9	+0·8	96·3	−1·0	73·4	+0·5	99·0	+0·6	77·5	+0·8	92·9	+0·3	77·3	+0·2
Central India	83·0	+6·5	49·9	+1·4	80·7	+0·1	49·3	−2·5	91·3	+0·1	59·6	−1·3	99·5	−0·9	69·3	−1·5	105·7	+1·0	77·8	−0·3	101·9	+3·0	81·0	+1·5
Central Provinces	83·9	+2·7	53·9	+0·7	83·0	−2·6	54·9	−1·9	93·7	−0·9	64·7	−0·1	101·4	−0·8	73·8	+0·3	106·1	+0·5	80·7	+1·3	100·2	+3·2	80·1	+2·4
Hyderabad	85·4	−0·1	58·0	−1·7	88·5	−2·1	62·7	−1·0	96·2	−1·3	69·3	−0·6	101·7	−0·5	76·6	+0·4	103·9	−0·2	79·2	+0·1	96·7	+1·2	76·0	+0·3
Mysore	82·2	−0·9	58·2	−1·7	88·0	−0·1	63·7	+0·5	93·0	−0·1	67·5	0	96·3	+1·2	71·6	+0·9	91·3	−1·3	70·8	+0·7	86·6	+1·3	68·3	0
Madras	84·2	−1·0	65·9	−1·1	87·2	−1·6	70·0	+0·3	90·0	−2·3	72·6	−0·9	94·0	−1·6	77·7	−0·1	93·3	−3·7	79·1	−0·3	93·9	+0·1	78·8	+0·6

with their departures from the normal in the 15 chief political divisions of India in 1932.

JULY.				AUGUST.				SEPTEMBER.				OCTOBER.				NOVEMBER.				DECEMBER.				YEAR.			
Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.	
Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.
86·2	—2·6	75·4	+0·8	86·8	+0·3	76·1	+0·7	86·9	—0·4	75·6	+0·5	88·4	+0·8	75·1	+1·4	87·4	+2·3	71·0	+2·3	83·7	+1·6	62·2	+0·1	88·0	+0·2	71·1	+0·6
89·6	+0·8	77·1	—0·1	88·4	—0·3	77·1	—0·1	88·2	—0·1	76·5	+0·5	86·0	+0·7	71·9	+0·8	81·6	+0·1	65·3	+4·0	75·9	+0·3	55·0	+2·8	84·3	+0·5	67·1	+0·7
87·7	—0·3	78·0	—0·3	88·0	+0·3	78·8	+0·2	89·0	+0·7	78·5	+0·8	90·0	+2·4	74·8	+1·2	83·8	+0·8	66·7	+2·6	79·6	+1·9	57·7	+2·4	87·6	+1·2	70·4	+0·9
89·3	0	77·3	—0·2	88·9	+0·7	77·8	+0·1	89·3	+0·3	77·5	+0·5	89·7	+1·4	71·6	+0·3	81·2	—1·5	62·3	+1·5	78·3	+1·1	53·1	+0·6	89·1	+0·9	69·1	+0·3
96·0	+3·7	80·3	+1·3	90·2	+0·4	77·7	—0·2	90·8	—0·1	76·5	+0·9	92·0	+1·7	65·6	—0·3	82·7	+0·1	53·9	—0·2	75·0	+0·5	46·4	—0·5	90·4	+1·9	65·7	+0·3
99·5	—0·8	81·2	0	95·7	—1·5	78·8	—0·8	98·9	+2·1	75·5	+1·0	94·1	+0·8	61·7	—0·5	84·2	+2·1	47·2	—2·6	71·6	+0·4	41·2	—1·0	90·2	+1·3	62·9	0
101·6	—1·1	81·2	—0·1	97·6	—1·9	79·2	—0·7	100·4	+3·2	74·6	+1·3	92·4	+1·7	60·6	—0·3	83·4	+4·2	46·8	—1·9	71·1	+2·0	38·8	—1·7	89·0	+1·7	61·5	+0·1
98·1	—0·7	82·7	+0·4	92·5	—2·8	79·5	—0·3	95·6	+0·1	77·1	+0·7	95·8	+1·1	68·7	—0·5	87·7	+0·7	57·6	—1·6	78·0	+0·3	52·9	+1·0	91·5	+0·5	68·9	+0·5
95·9	—0·1	79·9	—0·2	89·1	—3·0	76·1	—1·8	97·2	+3·2	77·3	+1·5	96·8	+2·1	68·1	+0·2	87·5	+1·3	58·5	—3·5	79·5	+2·1	49·6	—0·4	92·4	+1·2	67·4	—0·1
86·0	—1·1	75·4	0	87·0	+0·7	74·4	+0·3	88·4	+0·9	73·6	+0·6	91·5	+0·5	73·0	+2·7	89·0	+0·4	64·0	+0·2	86·4	+1·5	59·1	+0·7	90·2	+0·5	69·3	+0·6
90·0	+1·9	76·3	+0·4	86·8	+1·4	73·8	—0·5	89·3	+1·5	73·4	+0·7	92·0	+2·5	64·8	0	84·4	+1·4	50·7	—3·6	80·3	+3·2	46·2	—1·3	90·4	+1·8	64·4	—0·6
85·6	—1·2	73·3	—0·4	86·5	+1·6	73·3	+0·5	87·2	—0·1	73·1	+0·6	90·0	+1·2	68·7	+2·3	84·0	+0·1	59·3	+1·6	82·0	+2·1	52·0	+0·3	90·3	+0·5	67·4	+0·6
86·3	—1·7	72·8	—0·3	88·8	+1·7	72·8	+0·5	87·7	—0·1	72·0	0	90·0	+0·1	71·3	+1·9	85·5	—0·7	65·6	+2·5	84·3	+0·4	57·6	—0·7	91·3	—0·3	69·5	+0·1
81·9	—0·4	68·0	+0·8	84·6	+2·1	68·5	+1·6	83·1	—0·4	67·0	+0·4	88·6	—0·2	66·0	—0·6	81·2	—0·5	66·7	+2·0	81·2	+0·3	60·9	+0·9	86·1	+0·1	66·3	+0·5
90·0	—1·0	77·1	+0·3	89·7	—0·7	76·7	+0·5	89·7	—0·4	76·4	+0·6	87·8	—0·9	75·4	+1·0	84·9	—0·9	72·9	+1·6	83·9	—0·3	68·0	+0·3	89·1	—1·2	74·2	+0·2

TABLE A-3.—*Monthly and annual means of maximum and minimum temperatures*

SUB-DIVISION.	JANUARY.				FEBRUARY.				MARCH.				APRIL.				MAY.				JUNE.			
	Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.	
	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.
1. Bay Islands .	83·9	—2·2	75·9	+0·3	85·5	—2·1	73·3	—1·7	89·0	—1·3	76·5	+0·2	89·8	—2·4	78·4	—0·3	89·9	+1·2	78·8	+0·4	84·7	—1·1	77·3	—0·5
2. Lower Burma .	86·0	+0·9	64·3	—0·7	87·4	—0·5	67·1	+0·1	90·9	—0·3	71·7	—0·2	92·2	—1·0	76·6	+0·7	91·5	+1·3	77·8	+0·9	85·6	—0·5	76·1	+0·3
3. Upper Burma .	80·8	+0·8	53·0	—0·2	82·5	—2·7	55·5	—1·2	92·4	—0·3	64·5	+0·2	96·4	—0·3	71·7	+0·2	98·4	+3·1	76·4	+1·5	90·7	+0·1	76·5	+0·8
4. Assam . .	75·0	+0·5	52·3	+1·4	75·5	—1·6	53·0	—1·3	86·4	+2·9	62·1	+0·8	89·7	+4·5	67·7	+0·2	86·5	—0·8	71·6	—0·5	87·9	—0·6	76·2	+0·3
5. Bengal . .	80·3	+2·9	55·6	+1·3	81·1	—0·2	57·1	—0·8	92·1	+2·6	67·7	+1·0	95·4	+1·8	73·5	—0·3	93·9	+1·0	77·6	+1·3	90·5	+0·6	79·5	+1·1
6. Orissa . .	83·6	+2·0	58·1	0	84·9	—1·1	61·2	—2·2	93·6	+0·4	69·9	—0·4	98·1	0	75·7	—0·6	98·5	—0·9	80·2	+0·5	96·2	+2·6	80·9	+1·4
7. Chota-Nagpur .	79·2	+2·8	51·1	+0·8	79·4	—1·1	53·5	—1·1	91·4	+1·2	63·7	+0·9	99·8	0	71·4	—0·6	102·0	—0·6	77·5	+0·1	100·4	+5·5	81·0	+3·2
8. Bihar . .	78·3	+4·0	51·3	+0·8	79·4	+0·6	52·5	—1·0	93·3	+3·3	64·2	+1·0	99·9	+1·3	71·7	—0·8	102·3	+3·6	77·9	+1·0	96·8	+2·6	80·3	+1·6
9. United Provinces, East.	78·5	+4·9	49·6	+1·9	80·0	+1·7	50·3	—1·1	92·7	+2·5	62·2	+1·5	101·6	+0·7	71·3	+0·2	106·5	+2·4	78·2	+0·1	104·9	+4·7	84·7	+3·4
10. United Provinces, West.	77·1	+5·8	47·2	+1·2	77·1	+1·6	46·6	—2·6	89·1	+2·0	58·7	+0·7	98·1	—0·2	67·4	—1·1	104·0	+0·2	75·2	—1·5	106·8	+5·5	84·2	+3·5
11. Punjab, East and North.	72·7	+5·5	43·8	+1·7	73·4	+2·5	44·5	—1·1	83·8	+1·8	56·5	+1·6	96·3	+2·2	65·3	+0·5	100·9	—2·3	71·2	—2·0	103·5	+3·5	82·5	+2·2
12. Punjab, South-west.	72·7	+3·8	45·0	+3·3	74·5	+2·2	46·2	+0·5	84·4	+1·5	57·8	+1·9	98·2	+3·8	68·5	+2·3	102·6	—2·3	73·0	—2·6	100·9	+2·3	84·4	+1·1
13. Kashmir . .	34·4	+0·5	10·3	+2·0	40·8	+3·1	17·0	+0·3	52·9	+4·1	32·6	+5·1	64·7	+4·9	40·8	+2·9	68·0	—3·4	45·5	—0·7	76·8	—1·8	52·2	+0·1
14. N.-W. F. Province.	70·3	+4·3	43·0	+2·3	71·2	+2·3	43·3	—0·9	79·4	+1·3	55·5	+1·9	94·2	+5·3	64·7	+1·9	97·8	—2·5	70·0	—2·5	103·4	+2·1	80·7	+1·3
15. Baluchistan .	60·5	+4·5	32·9	+1·9	61·6	+3·6	30·8	—2·6	67·7	+0·1	43·5	+1·7	80·9	+2·8	52·9	+2·6	87·6	—2·9	59·0	0	96·1	—1·7	66·4	+0·7
16. Sind . . .	78·2	+3·0	52·8	+1·9	81·8	+2·9	55·8	+1·2	88·6	+0·4	65·8	+2·1	97·3	+1·8	72·3	+0·4	103·0	+0·3	79·4	+0·9	101·3	—1·7	82·7	—0·3
17. Rajputana, West	80·6	+6·1	52·2	+2·9	81·2	+2·7	52·3	—0·4	90·2	+0·4	64·2	+1·3	99·5	—0·6	73·8	+0·5	107·2	+0·5	81·4	+0·3	104·2	—1·3	85·2	+1·5
18. Rajputana, East	82·0	+7·0	52·4	+3·7	80·1	+1·0	51·1	—1·2	90·4	+0·4	62·1	—0·1	98·7	—1·1	71·5	—1·4	106·1	+0·2	79·6	—1·5	105·8	+2·7	84·2	+1·3
19. Gujarat .	87·5	+4·7	53·2	+2·4	85·8	+0·7	58·4	+0·2	93·2	+0·9	67·0	+1·3	96·9	—0·8	73·4	+0·7	101·0	+1·3	79·2	+1·2	96·2	+0·1	81·2	+0·9
20. Central India, West.	82·7	+4·2	51·8	+2·3	80·0	—1·9	49·8	—2·2	99·4	—1·1	59·9	—0·9	97·4	—2·3	69·9	—0·5	104·1	+0·8	77·6	+0·9	98·1	+1·2	77·1	+0·5
21. Central India, East.	83·3	+3·8	48·1	+0·5	81·5	+2·2	48·7	—2·9	92·2	+1·3	59·4	—1·5	101·6	+0·5	68·8	—2·5	107·2	+1·1	78·1	—1·6	105·9	+4·9	84·8	+2·5
22. Berar . .	86·8	+1·5	56·9	+0·5	86·1	—3·9	57·4	—2·3	96·5	—1·7	67·4	—0·1	103·0	—2·1	76·5	+1·0	107·7	0	82·4	+1·7	99·3	+1·0	79·4	+1·7
23. Central Provinces, West.	84·3	+4·1	53·9	+1·9	82·4	—2·2	53·8	—1·5	92·8	—1·3	63·4	—0·1	100·9	—1·5	72·8	0	106·5	+0·6	80·1	+0·8	100·5	+2·6	80·2	+2·0
24. Central Provinces, East.	82·0	+1·3	52·5	—0·9	82·6	—2·5	55·2	—2·5	93·0	+0·3	65·0	—0·3	101·2	+0·7	74·2	+0·5	104·6	+0·7	80·7	+1·8	100·1	+5·1	80·2	+3·2
25. Konkan . .	89·3	+3·8	67·8	+0·9	84·5	—0·4	67·7	+0·1	87·5	+0·7	73·1	+0·7	88·4	—0·8	77·5	+0·3	89·8	—0·7	79·9	—0·1	86·5	—0·1	77·0	—0·8
26. Bombay, Deccan	85·4	—0·1	54·1	—1·8	87·8	—2·4	56·6	—2·0	95·8	—0·8	65·2	+0·1	99·6	—1·3	71·6	+0·5	100·8	+0·2	73·9	+0·7	91·7	+0·9	72·4	—0·1
27. Hyderabad, North.	86·1	+0·8	55·4	—0·9	87·0	—2·8	59·6	—0·6	95·8	—1·3	68·1	+1·0	102·0	—0·7	75·8	+1·1	105·0	+1·0	79·0	+0·9	96·3	+0·7	75·6	+0·7
28. Hyderabad, South.	85·1	—0·6	59·3	—2·1	89·3	—1·7	64·4	—1·1	96·3	—1·4	69·9	—1·4	101·7	—0·3	77·1	+0·1	103·2	—0·4	79·4	—0·3	97·0	+1·5	76·2	+0·1
29. Mysore . .	82·2	—0·9	58·2	—1·7	88·0	—0·1	63·7	+0·5	93·0	—0·1	67·5	0	96·3	+1·2	71·6	+0·9	91·3	—1·3	70·8	+0·7	86·6	+1·3	68·3	0
30. Malabar . .	87·8	+0·3	69·5	—1·6	85·2	—2·9	72·6	—0·6	88·3	—1·3	76·1	—0·1	83·8	—1·7	78·5	+0·2	86·6	—2·8	77·4	—0·7	84·5	0	75·7	+0·7
31. Madras, South-east.	83·4	—1·8	67·5	—0·5	87·9	—1·1	70·3	+1·0	90·4	—3·0	72·6	0	94·6	—1·7	77·5	+0·3	93·6	—4·5	78·5	—0·2	95·7	—0·3	78·4	+0·4
32. Madras, Deccan.	86·0	—2·3	60·7	—1·8	92·1	—2·1	67·6	+0·7	97·9	—2·8	71·1	—1·8	102·2	—2·1	75·6	—0·1	101·8	—2·5	80·5	0	96·8	—0·5	78·2	+0·3
33. Madras Coast, North	82·3	+0·1	63·8	—1·5	84·9	—1·2	68·8	—0·2	88·8	—1·7	71·0	—2·2	2·3 9	—1·2	77·1	—0·7	92·9	—3·8	80·4	—0·5	95·9	+1·1	81·7	+1·0

with their departures from normal in the 33 sub-divisions of India in 1932.

JULY.				AUGUST.				SEPTEMBER.				OCTOBER.				NOVEMBER.				DECEMBER.				YEAR.			
Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.	
Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.
84·6	—0·8	78·2	+0·7	86·4	+1·2	78·5	+1·3	83·6	—1·3	76·3	—0·3	85·9	—0·5	76·6	—0·3	88·1	+1·5	76·6	—0·5	83·3	—2·3	75·8	—0·7	86·2	—0·8	76·9	—0·1
83·7	—1·0	75·1	—0·3	85·8	+1·3	76·1	+0·8	84·8	—0·7	75·7	+0·2	87·7	+0·7	76·4	+1·2	87·7	+1·6	73·9	+1·7	85·3	+1·0	67·0	—0·1	87·4	+0·2	73·1	+0·4
85·1	—4·6	78·0	+2·2	88·2	—0·8	76·0	+0·5	89·6	—0·1	75·7	+1·0	89·2	+0·8	73·5	+1·7	86·8	+3·1	67·2	+3·1	81·5	+2·3	56·0	+0·4	88·5	+0·1	68·7	+0·9
89·6	+0·8	77·1	—0·1	88·4	—0·3	77·1	—0·1	88·2	—0·1	76·5	+0·5	86·9	+0·7	71·9	+0·8	81·6	+0·1	65·3	+4·0	75·0	+0·3	55·0	+2·8	84·3	+0·5	67·1	+0·7
87·7	—0·3	78·0	—0·3	88·0	+0·3	78·3	+0·2	89·0	+0·7	78·5	+0·8	90·0	+2·4	74·8	+1·2	83·3	+0·3	66·7	+2·6	79·5	+1·9	57·7	+2·4	87·6	+1·2	70·4	+0·9
86·6	—2·1	77·6	—0·7	86·1	+0·2	78·2	+0·2	89·0	—0·1	78·3	+0·5	90·1	+1·0	74·6	+1·0	82·3	—2·1	67·1	+2·5	81·2	+1·0	57·4	+0·6	86·3	+0·1	71·6	+0·2
88·0	—0·9	76·0	—0·4	87·3	+0·3	75·5	—0·1	87·7	—0·2	75·1	+0·7	87·9	+0·7	67·8	+0·3	79·0	—2·2	58·7	+1·5	70·4	+0·5	49·3	0	83·2	+0·5	66·7	+0·4
92·3	+2·1	79·3	+0·4	90·6	+1·5	78·5	0	90·4	+1·0	78·0	+0·3	90·3	+2·2	70·8	—0·5	81·5	—0·6	60·2	+0·7	77·0	+1·7	51·4	+0·8	89·5	+1·9	68·0	+0·8
96·4	+4·0	81·1	+1·6	90·5	+0·4	78·6	+0·1	92·0	+0·7	78·2	+1·4	93·2	2·5	67·9	+0·3	89·1	0	56·8	+1·3	76·1	+1·0	48·2	+0·5	91·3	+2·1	67·3	+0·9
95·5	+3·3	79·4	+0·9	89·9	+0·4	76·7	—0·5	89·7	—0·9	74·9	+0·5	90·8	+0·8	65·1	—1·0	82·2	+0·2	51·1	—1·7	73·8	0	44·7	—1·4	89·5	+1·6	64·1	—0·3
97·7	—0·6	80·4	+0·6	94·0	—1·3	77·6	—0·8	90·7	+1·4	74·6	+1·0	93·4	+0·9	60·8	—0·5	83·5	+2·1	46·3	—2·7	70·9	+0·1	40·9	—0·9	89·3	+1·3	62·0	—0·2
102·3	—1·0	82·3	—0·9	98·2	—1·8	80·6	—0·9	102·2	+3·1	77·0	+1·0	95·4	+0·8	63·0	—0·5	85·3	+2·2	48·6	—2·4	72·5	+0·8	41·5	—1·2	91·5	+1·3	64·1	+0·1
84·6	+2·1	60·8	+3·1	79·8	—2·2	57·4	—0·2	76·9	+1·6	49·7	+0·4	63·2	—3·0	38·4	0	56·6	+2·9	28·2	+1·0	43·0	+3·2	19·6	+0·7	61·8	+1·0	38·2	+1·2
101·6	—1·1	81·2	—0·1	97·6	—1·9	79·2	—0·7	100·4	+3·2	74·6	+1·3	92·4	+1·7	60·6	—0·3	83·4	+4·2	46·8	—1·9	71·1	+2·0	38·8	—1·7	89·0	+1·7	61·5	+0·1
96·1	—3·3	72·8	+2·9	94·8	—2·1	66·3	+0·2	90·4	—0·3	58·5	+1·3	77·4	—2·8	45·0	—1·4	69·4	+0·5	35·5	—1·7	54·5	—3·7	23·3	—3·2	78·1	—0·4	49·2	+0·2
98·1	—0·7	82·8	+0·5	92·5	—2·8	79·5	—0·3	95·6	+0·1	77·1	+0·7	95·8	+1·1	68·7	—0·5	87·7	+0·7	57·6	—1·6	78·0	+0·8	52·9	+1·0	91·5	+0·5	68·9	+0·5
98·6	—0·9	81·7	+0·1	90·8	—4·7	77·2	—2·6	100·5	+4·0	78·3	+1·7	98·8	+2·5	69·7	+0·2	89·6	+2·5	56·4	—2·1	80·3	+2·9	50·7	—0·2	93·5	+1·2	68·6	+0·3
94·1	+0·4	78·7	—0·4	87·1	—1·8	75·4	—1·6	94·9	+2·6	76·5	+1·5	95·5	+1·8	67·1	+0·2	86·2	+0·6	51·5	—4·5	79·0	+1·7	48·8	—0·5	91·7	+1·3	66·6	—0·4
89·0	—1·0	78·5	0	88·8	—0·1	76·6	—0·1	91·6	+1·5	76·2	+0·9	95·8	+1·8	74·3	+3·2	82·2	+1·7	62·4	—1·3	87·1	+2·5	58·7	+1·6	92·1	+1·1	70·3	+0·9
86·0	—0·7	73·8	+0·1	84·6	+0·8	71·6	—0·5	87·9	+1·2	71·6	+1·1	90·6	+0·7	66·1	+2·0	84·5	+0·2	52·3	—2·6	81·1	+1·9	49·8	+0·3	88·9	+0·4	64·3	0
94·2	+4·6	78·8	+0·7	88·9	+2·0	76·1	—0·5	90·7	+1·8	75·0	+0·2	93·4	+4·3	68·7	—1·9	84·4	+2·7	49·0	—4·7	79·6	+4·5	44·0	—2·8	91·0	+3·2	64·5	—1·2
86·4	—2·3	74·4	+0·1	88·0	+1·3	74·0	+0·9	89·0	+0·1	73·6	+1·1	93·2	+1·6	71·3	+3·7	87·5	0	62·8	+2·6	85·7	+2·0	56·0	+1·1	92·4	—0·2	69·3	+1·0
86·1	—0·8	74·1	—0·5	86·5	+1·8	73·8	+0·3	87·3	—0·1	72·8	+0·5	90·2	+1·0	68·0	+2·4	83·9	0	57·2	+0·9	81·9	+2·5	50·9	+0·2	90·3	+0·6	66·7	+0·6
84·4	—1·3	73·2	—0·5	85·8	+1·3	73·6	+0·4	86·2	—0·1	73·3	+0·6	88·2	+1·5	68·5	+1·4	82·2	+0·2	60·8	+2·3	80·3	+1·6	51·7	0	89·3	+0·7	67·4	+0·5
88·7	—0·2	76·3	—0·1	84·5	+1·0	76·6	+0·7	84·8	+0·8	75·8	+0·6	87·9	+0·7	76·4	+1·4	88·5	0	72·9	+1·5	87·6	+0·5	68·9	+0·9	86·9	+0·4	74·2	+0·5
83·2	—1·6	71·1	+0·1	85·9	+1·7	70·4	+0·7	85·8	+0·1	69·2	+0·3	88·4	—0·4	69·5	+2·7	85·0	—1·1	61·6	+1·4	84·8	+0·7	54·7	—0·7	89·5	—0·3	65·9	+0·2
85·0	—2·7	72·0	—0·3	86·8	+1·7	72·0	+0·9	87·3	+0·2	71·3	+0·5	90·4	+0·5	69·8	+2·3	86·0	—0·3	63·0	+2·8	85·1	+1·4	55·1	+0·4	91·1	—0·3	68·1	+0·7
87·7	—1·2	73·2	—0·3	89·7	+1·9	73·1	+0·3	87·8	—0·3	72·9	—0·3	89·8	—0·1	72·0	+1·7	85·2	—1·0	66·9	+2·4	83·9	—0·1	58·8	—1·3	91·4	—0·3	70·2	—0·2
81·9	—0·4	68·0	+0·8	84·6	+2·1	68·5	+1·6	83·1	—0·4	67·0	+0·4	83·6	—0·2	66·0	—0·6	81·2	—0·5	65·7	+2·0	81·2	+0·3	60·9	+0·9	89·1	+0·1	66·3	+0·5
83·0	—0·1	75·1	+0·8	83·7	+0·5	75·4	+0·9	83·3	—0·8	75·1	+0·6	83·8	—1·5	74·8	+0·1	84·2	—2·1	74·1	+0·2	80·7	—0·4	72·2	+0·3	85·5	—1·1	74·7	+0·1
92·9	—1·0	77·5	+0·8	91·4	—1·6	76·4	+0·5	92·2	0	76·3	+1·0	88·0	—1·4	75·0	+0·0	85·4	—0·4	73·2	+1·4	83·3	—0·7	69·5	+0·5	89·9	—1·5	74·4	+0·5
91·1	—1·9	76·2	+0·2	92·5	+0·5	75·7	+0·7	89·4	—2·0	74·0	—0·3	90·9	—0·3	74·6	+2·3	86·2	—1·8	70·3	+3·2	85·6	—0·6	68·4	+1·1	92·7	—1·5	73·6	+0·4
89·9	—1·3	78·3	—0·6	89·7	—0·8	78·6	+0·1	90·3	0	78·5	+0·4	88·8	+0·1	76·9	+1·2	83·8	—0·5	72·8	+2·2	81·9	+0·5	65·3	—0·2	88·5	—0·7	74·4	—0·1

TABLE A-4.—*Departure of the mean monthly and annual aqueous vapour pressure from the normal in the 15 chief political divisions of India in 1932.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	—·044	—·043	—·025	—·014	—·050	—·005	—·014	—·012	—·007	+·020	+·030	—·023	—·016
Assam	+·022	—·032	—·001	—·013	—·018	+·018	—·002	+·003	+·021	+·014	+·066	+·041	+·010
Bengal	+·033	—·038	—·021	—·037	+·011	+·018	—·010	+·007	+·015	+·017	+·046	+·042	+·007
Bihar and Orissa . .	+·009	—·053	—·029	—·061	—·047	—·030	+·001	—·005	+·019	—·005	+·042	+·017	—·012
United Provinces . .	+·017	—·056	—·014	—·068	—·113	—·087	—·021	—·025	+·023	—·021	—·014	—·012	—·033
Punjab	+·016	—·029	+·020	—·024	—·118	—·065	+·029	+·003	—·011	—·045	—·054	—·018	—·025
N.-W. F. Province . .	+·029	—·025	+·043	—·037	—·061	—·025	+·013	+·006	—·004	—·081	—·070	—·043	—·021
Sind	+·042	+·022	+·044	—·014	—·075	—·033	+·055	+·019	+·017	—·115	—·051	—·047	—·011
Rajputana	+·024	—·055	+·021	—·029	—·147	—·069	+·020	—·006	—·052	—·101	—·035	—·037	—·043
Bombay	—·015	—·018	—·028	—·032	—·031	—·030	+·013	+·006	+·005	+·037	—·045	—·023	—·013
Central India . . .	+·024	—·037	+·001	—·011	—·052	—·008	+·024	—·019	+·011	+·009	—·057	—·028	—·012
Central Provinces . .	+·016	—·029	+·011	+·002	+·013	—·044	+·017	+·026	+·019	+·051	—·008	—·025	+·004
Hyderabad . . .	—·007	0	—·029	—·068	—·001	—·018	+·017	+·046	+·017	+·067	+·052	+·003	+·007
Mysore	—·053	+·003	—·031	+·010	+·025	—·003	+·013	+·052	+·001	+·058	+·063	+·019	+·013
Madras	—·058	—·026	—·052	—·015	—·002	—·026	—·012	+·032	—·017	+·027	+·035	+·008	—·009
Mean of India . . .	+·003	—·033	—·011	—·028	—·049	—·031	+·006	+·005	+·001	0	—·004	—·011	—·013

TABLE A-5.—*Departure of the mean monthly and annual relative humidity from the normal in the 15 chief political divisions of India in 1932.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	—6	—5	—8	—2	—9	—1	0	—3	—1	—1	—2	—5	—3
Assam	0	—3	—4	—8	—1	+1	—1	+1	+1	—2	+1	0	—1
Bengal	+1	—4	—6	—5	—2	—1	0	0	0	—2	+3	+1	—1
Bihar and Orissa . .	—2	—8	—7	—8	—7	—10	—1	—2	0	—3	+4	0	—4
United Provinces . .	—1	—10	—6	—8	—11	—15	—7	—4	+1	—3	—1	+1	—5
Punjab	—3	—9	—3	—9	—11	—10	+1	—2	—5	—7	—11	—5	—6
N.-W. F. Province . .	+4	—6	+2	—9	—2	+1	+7	+5	+1	—9	—11	—11	—2
Sind	+1	—1	+1	—5	—8	—1	+1	+2	0	—12	—2	—14	—3
Rajputana	—5	—14	0	—4	—14	—6	—1	+2	—9	—14	—15	—12	—8
Bombay	—5	—1	—5	—3	—4	—3	+3	0	—1	+1	—5	—4	—2
Central India . . .	—1	—5	—1	—1	—7	—7	—1	—5	—3	—2	—7	—7	—4
Central Provinces . .	—1	—1	0	0	—1	—9	+4	—2	+1	+2	—2	—6	—1
Hyderabad . .	+1	+3	—2	—5	—1	—3	+4	+1	+3	+6	+6	+4	+1
Mysore . . .	—3	+2	—2	+2	+3	—1	+2	+1	0	+6	+6	+4	+2
Madras	—4	—2	—4	—1	+3	—3	—1	+2	—3	+2	+3	+1	—1
Mean of India . . .	—3	—5	—3	—4	—6	—5	0	—1	—1	—2	—3	—4	—3

TABLE A-6.—*Departure of the mean monthly and annual cloud amount from the normal in the 15 chief political divisions of India in 1932.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma . . .	—0·7	+0·2	—0·4	+0·3	—0·6	+0·2	+0·5	—0·3	+0·7	+0·7	+0·1	—0·3	0
Assam . .	—0·4	0	—1·1	—1·3	+0·9	+0·9	+0·3	+0·9	+1·1	+0·2	+2·0	+0·2	+0·3
Bengal . . .	—1·0	+0·3	—0·4	—0·3	+0·8	+0·7	+0·4	+0·3	+0·7	+0·5	+1·9	—0·3	+0·3
Bihar and Orissa . .	—1·4	—0·1	—0·7	+0·1	+1·1	+0·7	+0·3	+0·3	+1·3	+0·7	+2·1	—0·6	+0·3
United Provinces .	—1·1	—0·4	+0·1	—0·2	—0·1	—0·5	—0·5	—0·2	+1·2	+0·3	+0·5	+0·1	—0·1
Punjab .	—0·3	—1·4	+0·3	—0·2	+0·5	—0·4	+1·2	—0·1	—0·5	+0·6	—0·6	0	—0·1
North-West Frontier Province.	—0·1	—1·1	+0·9	—0·5	+0·2	+0·5	+2·0	+0·7	—1·1	+0·2	—0·7	—0·1	+0·1
Sind . . .	+0·5	—1·0	0	+0·1	—0·2	+0·2	+1·0	+0·9	+1·3	+0·7	—0·3	+0·3	+0·3
Rajputana	—0·6	—0·6	—0·6	—0·4	—0·5	—1·3	+0·7	+0·2	—0·4	+0·9	—0·4	0	—0·3
Bombay	0	+0·1	—0·3	+0·9	+0·4	—0·2	+0·5	—0·4	+0·1	+2·1	+0·7	0	+0·3
Central India . . .	—1·1	—0·5	—0·4	+0·4	—0·3	—1·4	—0·3	—1·3	0	+1·5	+0·5	—0·5	—0·3
Central Provinces . .	—1·3	+0·1	—0·3	+0·5	—0·3	—1·0	+0·5	—1·2	+0·1	+0·7	+1·2	—1·1	—0·2
Hyderabad . . .	—1·1	+0·7	—0·3	+1·1	+1·2	—0·4	+0·5	—0·9	+0·1	+1·7	+2·1	—0·9	+0·3
Mysore	—1·4	+0·5	+0·3	+0·2	+1·2	—0·2	+0·3	—0·7	—0·1	+2·0	+1·5	—0·3	+0·3
Madras	—0·6	+0·3	+0·7	+0·5	+1·3	0	+0·6	+0·1	+0·4	+1·5	+1·5	—0·4	+0·6
Mean of India . . .	—0·7	—0·1	—0·2	+0·1	+0·3	—0·2	+0·5	—0·2	+0·4	+1·0	+0·7	—0·3	+0·1

TABLE A-7.—*Average over the 15 chief political divisions of the*

DIVISION.	JANUARY.			FEBRUARY.			MARCH.			APRIL.			MAY.			JUNE.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
	"	"		"	"		"	"		"	"		"	"		"	"	
Burma . . .	0·04	—0·07	—64	0·41	+0·19	+86	0·21	—0·26	—55	1·48	+0·12	+9	6·50	—2·27	—26	15·64	—0·29	—2
Assam . . .	0·56	—0·11	—16	1·50	—0·03	—2	2·43	—1·56	—39	6·41	—2·60	—29	15·27	+3·26	+27	21·89	+3·76	+21
Bengal . . .	0·04	—0·30	—88	0·71	—0·24	—25	0·82	—0·85	—51	2·71	—0·57	—17	8·78	+1·07	+14	12·44	—2·23	—15
Bihar and Orissa .	0	—0·50	—100	0·88	—0·08	—9	0·18	—0·55	—75	0·64	—0·17	—21	1·76	—0·71	—29	4·79	—3·72	—44
United Provinces .	0	—0·79	—100	0·22	—0·50	—69	0·36	—0·10	—22	0·13	—0·12	—48	0·22	—0·46	—68	2·10	—2·29	—52
Punjab . . .	0·79	—0·24	—23	0·39	—0·59	—56	1·13	+0·30	+36	0·20	—0·34	—63	0·31	—0·26	—46	0·47	—1·26	—73
North-West Frontier Province,	1·41	+0·15	+12	0·86	—0·83	—28	3·45	+1·56	+83	0·49	—1·05	—68	0·73	—0·04	—5	0·44	—0·42	—49
Sind . . .	0·01	—0·22	—96	0·01	—0·28	—97	0·09	—0·14	—61	0·07	—0·04	—36	0·09	—0·06	—40	0·10	—0·37	—79
Rajputana . .	0·02	—0·28	—93	0·03	—0·24	—89	0·53	+0·33	+165	0·16	0	0	0·16	—0·34	—68	0·57	—1·69	—75
Bombay . . .	0	—0·12	—100	0·01	—0·07	—87	0·14	+0·03	+27	0·59	+0·20	+51	1·12	+0·06	+6	4·87	—3·91	—45
Central India . .	0	—0·46	—100	0·23	—0·16	—41	0·36	+0·14	+64	0·10	—0·07	—41	0·09	—0·38	—81	1·78	—3·09	—63
Central Provinces .	0	—0·61	—100	0·81	+0·01	+1	0·57	+0·04	+8	0·17	—0·30	—64	0·36	—0·31	—46	5·21	—2·70	—34
Hyderabad . .	0	—0·17	—100	1·02	+0·77	+308	0·09	—0·30	—77	0·35	—0·30	—46	1·08	+0·21	+24	4·26	—0·69	—14
Mysore . . .	0	—0·12	—100	0·61	+0·48	+369	0·01	—0·30	—97	1·35	—0·11	—8	5·00	+2·32	+65	2·49	—2·31	—48
Madras . . .	0·02	—0·72	—97	1·10	+0·66	+150	0·49	—0·22	—31	2·33	+0·57	+32	7·73	+4·19	+118	4·35	—3·61	—45
Mean of India . .	0·13	—0·33	—72	0·54	—0·01	—2	0·56	—0·14	—20	1·05	—0·16	—13	3·28	+0·13	+4	6·09	—1·87	—23

monthly and annual rainfall, with its departure from normal in 1932.

JULY			AUGUST.			SEPTEMBER.			OCTOBER.			NOVEMBER.			DECEMBER			YEAR.		
Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
"	"		"	"		"			"	"		"	"		"	"		"	"	
21·16	+4·08	+24	12·23	—4·66	—28	12·14	—0·06	0	6·27	—0·22	—3	1·73	—0·47	—21	0·05	—0·44	—90	77·81	—4·35	—5
16·70	—1·98	—11	16·66	—0·14	—1	15·19	+2·66	+21	4·34	—1·34	—24	3·28	+2·36	+257	0·78	+0·43	+123	105·01	+4·71	+5
13·43	—1·70	—11	14·17	—0·11	—1	8·67	—2·28	—21	3·76	—1·28	—25	5·30	+4·51	+571	0·16	0	0	70·99	—3·98	—5
11·89	—0·71	—6	10·06	—2·85	—22	8·50	—0·13	—2	1·62	—1·47	—48	3·70	+3·10	+517	0·16	+0·02	+14	44·13	—7·77	—15
7·37	—4·13	—36	10·17	—1·03	—9	8·79	+2·40	+38	0·30	—1·04	—78	0·65	+0·48	+282	0·34	+0·05	+17	30·65	—7·53	—20
6·46	+1·13	+21	5·36	—0·09	—2	1·92	—0·89	—32	0·04	—0·27	—87	0	—0·12	—100	0·82	+0·44	+116	17·89	—2·10	—11
5·41	+2·83	+110	2·49	—0·67	—21	0·49	—0·69	—58	0·02	—0·31	—94	0	—0·28	—100	0·44	—0·10	—19	16·23	+0·65	+4
3·60	+1·11	+45	2·91	+1·00	+52	0	—0·62	—100	0·01	—0·04	—80	0	—0·06	—100	0	—0·09	—100	6·89	+0·19	+3
7·20	+0·43	+6	6·82	—0·01	0	2·96	—0·35	—11	0·03	—0·42	—93	0	—0·13	—100	0·04	—0·13	—76	18·52	—2·83	—13
21·08	+6·11	+41	8·67	—0·96	—10	7·03	+0·49	+7	5·34	+2·77	+108	1·21	+0·46	+61	0·10	—0·08	—44	50·16	+4·98	+11
15·71	+4·53	+41	5·72	—5·96	—51	10·92	+5·32	+95	0·36	—0·60	—63	0·07	—0·35	—83	0	—0·19	—100	35·34	—1·27	—3
21·34	+8·13	+62	8·00	—4·36	—35	9·24	+2·05	+29	1·41	—0·54	—28	0·51	+0·02	+4	0	—0·32	—100	47·62	+1·21	+3
8·34	+1·17	+16	6·07	—0·72	—11	6·69	—0·80	—11	1·07	—0·67	—25	2·40	+1·49	+164	0·07	—0·22	—76	32·34	—0·23	—1
9·25	+2·10	+29	9·75	+4·52	+86	4·29	—0·89	—17	9·04	+3·74	+71	4·99	+2·57	+106	0·08	—0·27	—82	47·76	+11·63	+32
8·47	+0·15	+2	8·10	+1·48	+21	5·44	—0·59	—10	10·17	+2·44	+32	3·98	+2·95	+49	2·08	—0·01	0	59·21	+7·24	+14
13·18	+1·91	+17	8·86	—1·53	—15	7·41	+0·35	+5	3·33	+0·06	+2	2·21	+0·92	+71	0·38	—0·08	—17	47·02	—0·75	—2

TABLE A-8.—*Average over the 33 sub-divisions of the monthly and annual*

SUB-DIVISION.	JANUARY.					FEBRUARY.					MARCH.				
	RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
			"	"				"	"				"	"	
1. Bay Islands	0·5	—0·8	0·55	—0·65	—54	0	—0·7	0·05	—0·44	—90	1·0	+0·3	0·18	—0·27	—60
2. Lower Burma	0	—0·3	0·01	—0·10	—91	0·8	+0·5	0·38	+0·16	+73	0·3	—0·4	0·17	—0·36	—68
3. Upper Burma	0·1	—0·2	0·06	—0·05	—45	1·0	+0·4	0·43	+0·21	+95	0·7	—0·3	0·24	—0·18	—43
4. Assam	1·5	—0·1	0·56	—0·11	—16	3·9	+0·5	1·50	—0·03	—2	4·3	—2·1	2·43	—1·56	—39
5. Bengal	0·1	—0·7	0·04	—0·30	—88	1·5	—0·1	0·71	—0·24	—25	1·8	—1·2	0·82	—0·85	—51
6. Orissa	0	—0·3	0	—0·45	—100	1·2	—0·6	1·47	+0·29	+25	1·3	—0·6	0·58	—0·50	—46
7. Chota Nagpur	0	—1·4	0	—0·75	—100	1·9	—0·2	1·30	+0·15	+13	0·4	—1·4	0·13	—0·78	—86
8. Bihar	0	—0·9	0	—0·42	—100	0·9	—0·6	0·35	—0·34	—49	0·1	—0·9	0·02	—0·46	—96
9. United Provinces, East	0	—1·4	0	—0·63	—100	0·6	—0·7	0·26	—0·29	—53	0·2	—0·6	0·08	—0·24	—75
10. Do. do., West	0	—1·9	0·01	—0·92	—99	0·5	—1·1	0·13	—0·68	—79	1·7	+0·4	0·61	+0·02	+3
11. Punjab, East and North	1·0	—1·2	0·82	—0·38	—32	0·8	+0·6	0·45	—0·56	—55	3·2	+1·3	1·18	+0·28	+31
12. Do., Southwest	1·5	+0·3	0·69	+0·19	+38	0·5	—0·8	0·19	—0·34	—64	2·5	+0·9	0·97	+0·33	+52
13. Kashmir	2·8	—2·3	3·52	—0·12	—3	3·5	—1·5	2·78	—0·74	—21	6·2	—0·2	3·35	—0·73	—16
14. North-West Frontier Province	1·7	—0·7	1·41	+0·15	+12	2·3	—0·3	0·86	—0·33	—28	5·4	+1·7	3·45	+1·56	+83
15. Baluchistan	1·0	—1·6	0·34	—0·87	—72	0·8	—1·7	0·36	—0·84	—70	3·0	+0·1	1·12	—0·14	—11
16. Sind	0·1	—0·5	0·01	—0·22	—96	0	—0·7	0·01	—0·28	—97	0·4	—0·1	0·09	—0·14	—61
17. Rajputana, West	0·2	—0·3	0·04	—0·15	—79	0	—0·5	0·01	—0·22	—96	0·9	+0·4	0·34	+0·16	+89
18. Do., East.	0	—0·9	0·01	—0·35	—97	0·1	—0·6	0·03	—0·26	—90	1·4	+0·8	0·63	+0·41	+186
19. Gujarat	0	—0·2	0	—0·09	—100	0	—0·2	0	—0·10	—100	0	—0·2	0·01	—0·06	—86
20. Central India, West	0	—0·3	0	—0·39	—100	0·2	—0·5	0·09	—0·21	—70	1·0	+0·6	0·39	+0·22	+129
21. Do. do., East	0	—1·4	0	—0·68	—100	1·1	—0·4	0·69	—0·01	—1	0·9	—0·1	0·25	—0·15	—37
22. Berar	0	—0·7	0	—0·39	—100	2·0	+1·3	0·21	+0·55	+153	1·9	+1·2	0·95	+0·62	+188
23. Central Provinces, West	0	—1·1	0	—0·65	—100	1·5	+0·2	0·67	—0·02	—3	1·9	+0·7	0·89	+0·33	+59
24. Do. do., East.	0	—0·9	0	—0·46	—100	1·7	—0·1	0·85	—0·26	—23	0·5	—0·8	0·13	—0·47	—78
25. Konkan	0	—0·2	0	—0·10	—100	0	—0·1	0	—0·05	—100	0	—0·1	0	—0·06	—100
26. Bombay Deccan	0	—0·3	0	—0·15	—100	0	—0·2	0·01	—0·08	—89	0·7	+0·4	0·28	+0·13	+87
27. Hyderabad, North	0	—0·3	0	—0·16	—100	1·4	+0·9	0·60	+0·35	+140	0·4	—0·3	0·18	—0·19	—51
28. Do., South	0	—0·3	0	—0·18	—100	2·7	+2·2	1·49	+1·25	+521	0	—0·7	0	—0·42	—100
29. Mysore	0	—0·2	0	—0·12	—100	1·0	+0·8	0·61	+0·48	+369	0	—0·6	0·01	—0·30	—97
30. Malabar	0	—1·2	0	—0·88	—100	1·5	+0·6	0·95	+0·40	+73	2·2	—0·2	1·29	—0·15	—10
31. Madras, Southeast	0·1	—1·2	0·04	—0·95	—96	1·4	+0·7	1·13	+0·66	+140	0·5	—0·8	0·39	—0·12	—24
32. Do., Deccan	0	—0·3	0	—0·20	—100	0·6	+0·4	0·29	+0·15	+107	0	—0·8	0	—0·21	—100
33. Do., Coast, North	0	—0·5	0	—0·38	—100	2·3	+1·7	1·52	+1·13	+290	0·1	—0·7	0·04	—0·46	—92

rainfall and number of rainy days with their departures from normal in 1932.

April.					May				June.					July.				
Rainy days.		Rainfall.			Rainy days.		Rainfall.		Rainy days.		Rainfall.			Rainy days.		Rainfall.		
Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
5·5	+3·0	2·48	+0·93	+60	14·0	+0·7	16·23	+3·92	+32	15·5	−3·0	18·83	+1·61	+9	17·5	−1·0	14·47	+0·09	+2
2·4	+0·5	1·79	+0·41	+30	9·4	−3·2	8·23	−3·85	−32	21·5	−0·7	24·37	−1·15	−5	26·1	+2·0	35·19	+6·09	+21
2·5	0	1·13	−0·12	−10	6·7	−1·3	5·03	−0·93	−16	10·7	−0·2	8·30	+0·42	+5	12·6	+2·3	9·52	+2·42	+34
3·6	−3·3	6·41	−2·60	−29	16·4	+2·4	15·27	+3·26	+27	19·7	+2·0	21·89	+3·76	+21	18·1	−1·0	16·70	−1·98	−11
4·1	−0·4	2·71	−0·57	−17	6·6	−2·2	3·78	+1·07	+14	11·7	−2·7	12·44	−2·23	−15	16·6	0	13·43	−1·70	−11
2·0	−0·5	1·10	−0·29	−21	3·6	−1·3	3·47	+0·17	+5	7·6	−3·9	4·52	−5·29	−54	19·7	+4·5	18·01	+5·85	+45
1·4	−0·1	0·50	−0·19	−28	3·3	−0·4	1·69	−0·38	−18	6·1	−4·5	3·76	−5·04	−57	17·8	+2·6	15·02	+2·72	+21
1·1	−0·1	0·49	−0·11	−18	1·6	−1·6	0·99	−1·27	−56	6·5	−2·1	5·39	−2·34	−30	9·6	−3·8	6·95	−5·30	−43
0·2	−0·3	0·06	−0·13	−68	0·5	−0·8	0·24	−0·44	−65	3·6	−1·2	3·20	−1·60	−33	7·9	−4·7	6·64	−4·04	−43
0·6	−0·2	0·20	−0·10	−33	0·6	−0·9	0·19	−0·48	−72	2·0	−2·8	1·15	−2·89	−72	9·1	−2·3	8·01	−3·42	−30
0·7	−0·5	0·22	−0·33	−60	1·9	−0·4	0·36	−0·26	−42	1·4	−1·5	0·55	−1·48	−73	7·7	+1·0	7·32	+1·06	+17
0·5	−0·8	0·14	−0·38	−73	0·5	−0·5	0·14	−0·28	−67	0·7	−0·7	0·24	−0·57	−70	5·0	+1·9	3·82	+1·35	+55
2·1	−3·6	1·01	−2·50	−71	5·4	+1·6	2·40	+0·43	+22	2·7	−1·6	1·98	−0·60	−24	8·5	+0·8	10·38	+3·28	+46
1·4	−1·3	0·49	−1·05	−68	1·9	+0·2	0·73	−0·04	−5	1·0	−0·6	0·44	−0·42	−49	5·6	+2·0	5·41	+2·83	+110
1·0	−0·7	0·26	−0·44	−63	0·4	−0·3	0·11	−0·18	−62	0·3	−0·3	0·15	−0·15	−50	5·1	+3·5	3·08	+2·11	+218
0·1	−0·2	0·07	−0·04	−36	0·3	0	0·09	−0·06	−40	0·3	−0·4	0·10	−0·37	−79	5·6	+3·1	3·60	+1·11	+45
0·3	−0·1	0·09	−0·08	−50	0·6	−0·3	0·18	−0·25	−58	1·0	−1·0	0·35	−0·95	−73	6·7	+2·2	5·09	+1·57	+46
0·6	+0·2	0·21	+0·05	+31	0·6	−0·7	0·15	−0·39	−72	1·3	−2·7	0·68	−2·09	−75	11·6	+1·7	8·39	−0·18	−2
0	−0·1	0	−0·03	−100	0	−0·6	0·01	−0·32	−97	3·3	−2·2	2·22	−2·93	−57	18·3	+5·8	20·73	+8·09	+64
0·4	+0·1	0·10	−0·05	−33	0·2	−0·9	0·06	−0·42	−87	2·6	−3·3	1·57	−3·27	−68	16·9	+5·1	16·64	+6·02	+57
0·3	−0·2	0·09	−0·15	−63	0·6	−0·5	0·20	−0·26	−57	4·1	−1·6	2·47	−2·50	−50	13·1	−0·8	12·69	−0·29	−2
0·3	−0·4	0·09	−0·15	−63	0·9	−0·2	0·25	−0·29	−54	6·6	−1·4	4·81	−1·25	−21	18·1	+5·9	14·88	+5·71	+62
0·4	−0·3	0·09	−0·20	−69	0·7	−0·7	0·26	−0·32	−55	5·5	−3·1	4·67	−2·38	−32	22·3	+7·5	24·21	+10·87	+81
0·9	−0·7	0·28	−0·45	−62	1·3	−0·4	0·49	−0·30	−38	6·1	−3·8	5·60	−3·72	−40	20·7	+4·8	22·06	+7·39	+48
0·7	+0·1	0·39	−0·02	+5	3·2	+1·3	2·20	+0·72	+46	17·7	−0·6	17·15	−3·15	−32	27·2	+1·2	47·94	+8·86	+23
2·2	+0·9	1·04	+0·42	+68	2·9	+0·5	1·42	+0·08	+6	4·8	−3·1	2·22	−3·03	−58	15·9	+4·6	11·76	+3·85	+49
1·2	0	0·39	−0·12	−24	1·8	+0·2	0·74	+0·01	+1	7·5	−0·4	4·98	−0·53	−10	16·4	+4·6	10·47	+2·47	+31
0·9	−0·8	0·30	−0·51	−63	3·1	+0·9	1·46	+0·44	+43	6·2	−0·7	3·47	−0·86	−20	12·8	+2·1	5·97	−0·27	−4
2·8	+0·1	1·35	−0·11	−8	7·9	+2·3	5·90	+2·32	+65	5·4	−1·8	2·49	−2·31	−48	10·7	+1·0	9·25	+2·10	+29
5·7	+0·1	4·19	+0·42	+11	16·6	+7·7	22·22	+14·94	+205	16·8	−3·5	11·53	−12·17	−51	21·9	+2·0	22·42	+0·23	+1
3·9	+1·0	2·43	+1·14	+88	4·9	+1·1	3·51	+0·96	+38	2·2	−0·7	1·43	−0·13	−8	2·6	−1·2	1·51	−0·68	−31
0·9	−0·3	0·28	−0·34	−55	3·5	+0·5	1·83	+0·18	+11	3·7	−0·7	2·02	−0·85	−15	6·4	+0·1	2·59	−0·62	−19
1·5	−0·1	1·06	+0·12	+13	3·2	0	2·19	+0·10	+5	5·0	−1·8	2·86	−2·05	−42	12·1	+2·1	8·52	+1·88	+28

TABLE A-8.—*Average over the 33 sub-divisions of the monthly and annual*

SUB-DIVISION.	AUGUST.					SEPTEMBER.					OCTOBER.				
	RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
			"	"				"	"				"	"	
1. Bay Islands	7·0	—10·7	3·83	—9·25	—71	21·0	+3·2	21·25	+16·54	+112	11·0	—1·9	7·96	—0·82	—9
2. Lower Burma	18·4	—5·4	18·92	—8·22	—30	18·5	0	17·34	0	0	10·7	+0·4	7·28	—0·42	—5
3. Upper Burma	9·2	—2·5	6·61	—1·67	—20	10·3	—0·4	7·78	—0·10	—1	7·7	+0·3	5·43	—0·05	—1
4. Assam	18·6	+0·7	16·66	—0·14	—1	16·3	+2·5	15·19	+2·66	+21	6·5	—0·2	4·34	—1·34	—24
5. Bengal	17·1	+0·6	14·17	—0·11	—1	12·6	+0·4	8·67	—2·28	—21	4·7	—0·6	3·76	—1·28	—25
6. Orissa	18·9	—1·7	9·25	—3·79	—29	12·5	+0·7	10·72	+1·84	+21	4·4	—1·1	1·93	—2·88	—60
7. Chota Nagpur	14·7	—1·8	11·74	—2·09	—15	11·3	+1·1	7·76	—0·32	—4	3·0	—0·9	1·63	—1·31	—45
8. Bihar	12·3	—1·0	9·69	—2·75	—22	10·7	+1·8	7·73	—1·03	—12	1·9	—0·8	1·48	—0·87	—37
9. United Provinces, East.	12·1	—0·7	10·98	—0·39	—3	7·7	+0·3	4·55	—2·34	—34	0·9	—0·8	0·62	—1·26	—67
10. Do. do., West	10·8	—0·6	9·49	—1·58	—14	9·1	+3·1	12·49	+6·54	+110	0·1	—0·8	0·02	—0·86	—98
11. Punjab, East and North	7·4	+0·6	6·24	—0·17	—3	2·6	—0·7	2·47	—0·88	—26	0·1	—0·5	0·03	—0·35	—92
12. Do., Southwest	3·7	+0·6	2·77	+0·21	+8	0·5	—0·9	0·22	—0·90	—80	0·1	—0·1	0·05	—0·05	— 50
13. Kashmir	7·6	—0·9	6·33	—1·38	—18	0·9	—3·1	0·52	—3·02	—85	0·8	—0·9	0·28	—0·77	—73
14. North-West Frontier Province	3·6	—0·4	2·49	—0·67	—21	1·2	—0·7	0·49	—0·69	—58	0·1	—0·6	0·02	—0·31	—94
15. Baluchistan	2·1	+0·5	1·36	+0·40	+42	0	—0·4	0·01	—0·24	—96	0	—0·3	0	—0·15	—100
16. Sind	3·1	+0·8	2·91	+1·00	+52	0	—0·8	0	—0·62	—100	0·1	+0·1	0·01	—0·04	—80
17. Rajputana, West	4·0	—0·1	4·84	+0·80	+20	0·6	—1·8	0·28	—1·74	—86	0	—0·4	0	—0·31	—100
18. Do., East.	8·7	—1·1	7·88	—0·45	—5	4·6	—0·3	4·40	+0·40	+10	0·2	—0·5	0·05	—0·48	—91
19. Gujarat	9·1	—1·7	4·45	—3·69	—45	3·7	—2·0	3·91	—0·74	—16	2·6	+1·4	1·42	+0·51	+56
20. Central India, West	7·2	—4·7	4·82	—6·36	—57	7·3	+1·6	12·08	+6·81	+129	0·6	—0·5	0·35	—0·47	—57
21. Do. do., East	10·7	—3·5	8·62	—4·67	—35	8·7	+1·0	7·17	+0·48	+7	0·1	—0·7	0·42	—1·01	—71
22. Berar	9·6	—0·7	6·00	—0·95	—14	7·3	—0·5	5·65	—0·19	—3	2·4	+0·1	1·75	+0·17	+11
23. Central Provinces, West	10·5	—4·0	6·17	—6·64	—52	9·8	+0·5	9·90	+2·29	+30	1·8	—0·8	1·42	—0·39	—22
24. Do. do., East	14·3	—1·5	10·45	—4·51	—30	11·7	+1·9	10·65	+3·06	+40	1·6	—1·3	1·23	—1·02	—45
25. Konkan	17·5	—6·8	17·96	—6·02	—25	18·1	+2·9	16·79	+4·27	+34	11·2	+6·2	9·94	+5·63	+131
26. Bombay Deccan	11·0	+1·5	8·08	+2·60	+47	8·3	+0·1	5·58	—0·04	—1	9·0	+4·5	6·22	+3·21	+107
27. Hyderabad, North	11·2	+0·4	7·32	+0·09	+1	9·7	—0·2	6·51	—1·59	—20	3·4	+0·1	1·63	—0·37	—16
28. Do., South	7·9	—2·3	4·67	—1·64	—26	9·3	—0·3	6·89	+0·07	+1	3·6	—0·7	2·01	—1·01	—33
29. Mysore	12·2	+3·5	9·75	+4·52	+86	7·7	—0·4	4·29	—0·89	—17	13·2	+5·4	9·04	+3·74	+71
30. Malabar	17·5	+1·6	15·45	+2·97	+24	16·9	+5·5	10·72	+2·89	+37	19·6	+6·2	19·73	+8·59	+77
31. Madras, Southeast	8·2	+2·8	5·49	+1·87	+52	3·7	—2·4	2·36	—2·14	—48	12·1	+3·3	9·01	+1·90	+27
32. Do. Deccan	9·2	+2·6	6·14	+2·23	+57	6·4	—1·5	3·48	—2·32	—40	6·5	+0·8	3·74	—0·43	—10
33. Do. Coast, North	9·1	—1·2	5·75	—1·35	—19	8·6	—0·8	6·18	—0·81	—12	6·6	—0·4	4·73	—1·98	—30

rainfall and number of rainy days with their departures from normal in 1932—concld.

November					December.					Year.				
Rainy days.		Rainfall.			Rainy days.		Rainfall.			Rainy days.		Rainfall.		
Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
13·0	+3·5	9·20	+1·62	+21	4·0	—1·0	2·88	—1·76	—38	110·0	—8·4	107·91	+11·52	+12
3·5	+0·1	2·21	—0·42	—16	0·3	—0·5	0·10	—0·42	—81	111·9	—7·0	115·99	—8·28	—7
2·3	—0·6	1·33	—0·51	—28	0·1	—0·7	0·02	—0·44	—96	63·9	—3·2	45·88	—1·00	—2
5·2	+3·7	3·28	+2·36	+257	1·7	+0·9	0·78	+0·43	+123	120·8	+6·0	105·01	+4·71	+5
5·5	+4·5	5·30	+4·51	+571	0·2	—0·1	0·16	0	0	82·0	—2·5	70·99	—3·98	—5
5·1	+3·7	7·00	+5·54	+379	0	—0·4	0·01	—0·20	—95	71·3	—2·0	58·96	+0·29	0
3·0	+2·3	2·37	+1·98	+508	0·2	—0·1	0·03	—0·11	—79	63·1	—4·8	46·53	—6·12	—12
3·2	+2·8	2·73	+2·45	+875	0·6	+0·4	0·29	+0·20	+222	48·5	—6·8	36·11	—12·24	—25
1·4	+1·1	0·97	+0·78	+411	0·2	—0·2	0 07	—0·15	—68	35·3	—10·7	27·65	—11·63	—30
0·5	+0·2	0·37	+0·22	+147	1·0	+0·3	0·57	+0·22	+63	36·0	—6·6	33·29	—3·93	—11
0	—0·3	0	—0·13	—100	1·5	+0·6	1·02	+0·58	+132	27·4	—1·0	20·66	—2·62	—11
0	—0·2	0	—0·08	—100	0·7	+0·2	0·22	+0·01	+5	16·2	—0·1	9·45	—0·51	—5
0·2	—0·7	0·03	—0·44	—94	3·1	0	2·11	+0·16	+8	43·8	—12·4	35·11	—6·48	—15
0	—0·5	0	—0·28	—100	1·4	+0·3	0·44	—0·10	—19	25·6	—1·4	16·23	+0·65	+4
0	—0·7	0	—0·27	—100	0·9	—0·6	0·24	—0·39	—62	14·6	—2·5	7·03	—1·16	—14
0	—0·1	0	—0·06	—100	0	—0·3	0	—0·09	—100	10·0	+0·9	6·89	+0·19	+3
0	—0·1	0	—0·08	—100	0·2	0	0·04	—0·07	—64	15·4	—2·0	11·16	—1·32	—11
0	—0·3	0	—0·17	—100	0·1	—0·4	0·03	—0·18	—86	29·2	—4·8	22·46	—3·69	—14
	—0·3	0·01	—0·19	—95	0	—0·1	0·01	—0·03	—75	37·0	—0·4	32·77	+0·42	+1
0·1	—0·6	0·06	—0·39	—87	0	—0·4	0	—0·17	—100	36·5	—4·9	36·16	+1·32	+4
0·3	—0·8	0·11	—0·23	—68	0	—0·6	0	—0·26	—100	40·8	—0·1	32·71	—0·73	—28
0·6	—0·4	0·25	—0·32	—56	0	—0·7	0	—0·39	—100	49·7	+3·5	35·54	+3·12	+10
0·3	—0·5	0·18	—0·38	—68	0	—0·6	0	—0·32	—100	54·7	—1·9	48·76	+2·19	+5
1·5	+0·8	0·89	+0·49	+123	0	—0·6	0	—0·29	—100	60·3	—3·0	53·23	—0·54	—1
2·2	+0·7	1·31	+0·30	+30	0·5	+0·2	0·25	+0·11	+79	98·9	+4·3	114·02	+5·53	+5
2·6	+1·0	1·94	+0·93	+92	0·2	—0·3	0·12	—0·16	—57	57·6	+9·6	38·67	+7·76	+25
3·0	+1·7	1·71	+0·94	+122	0·1	—0·5	0·13	—0·23	—64	56·1	+6·2	34·96	+0·67	+2
4·2	+2·3	3·17	+2·11	+199	0	—0·4	0	—0·22	—100	50·7	+1·3	29·43	—1·24	—4
8·2	+4·4	4·99	+2·57	+106	0·3	—0·5	0·08	—0·37	—82	69·4	+14·0	47·76	+11·63	+32
12·2	+3·0	9·67	+2·53	+35	0·8	—1·8	1·64	—0·14	—8	131·7	+20·0	119·81	+19·63	+20
10·7	+2·3	10 6	+2·78	+37	5·4	+1·2	3·90	+0·52	+15	54·8	+6·6	41·46	+5·81	+16
6·2	+2·9	3·16	+1·00	+46	0·2	—0·5	0·04	—0·37	—90	43·6	+3·7	23·52	—1·28	—5
8·8	+4·6	8·18	+4·52	+123	0·2	—0·7	0·15	—0·70	—82	57·0	+2·2	41·18	+0·02	0

TABLE A-9.—*Average over the 15 Chief political divisions of the actual rainfall with its departure from normal for the four seasons of the year, and for the whole year, 1932.*

DIVISION.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO SEPTEMBER.			OCTOBER TO DECEMBER.			WHOLE YEAR.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
Burma	0·45	+0·12	+36	8·14	—2·41	—23	61·17	—0·23	—1	8·05	—1·13	—12	77·81	—4·35	—5
Assam	2·06	—0·14	—6	24·11	—0·90	—4	70·44	+4·30	+7	8·40	+1·45	+21	105·01	+4·71	+5
Bengal	0·75	—0·54	—42	12·31	—0·35	—3	48·71	—6·32	—11	9·22	+3·23	+54	70·99	—3·98	—5
Bihar and Orissa	0·83	—0·58	—41	2·58	—1·43	—36	35·24	—7·41	—17	5·48	+1·65	+43	44·13	—7·77	—15
United Provinces	0·22	—1·29	—85	0·71	—0·68	—49	22·43	—5·05	—15	1·29	—0·51	—28	30·65	—7·53	—20
Punjab	1·18	—0·74	—39	1·64	—0·30	—15	14·21	—1·11	—7	0·86	+0·05	+6	17·89	—2·10	—11
North-West Frontier Province	2·27	—0·18	—7	4·67	+0·47	+11	8·83	+1·05	+13	0·46	—0·69	—60	16·23	+0·65	+4
Sind	0·02	—0·50	—96	0·25	—0·24	—49	6·61	+1·12	+20	0·01	—0·19	—95	6·89	+0·19	+3
Rajputana	0·05	—0·52	—91	0·85	—0·01	—1	17·55	—1·62	—8	0·07	—0·68	—91	18·52	—2·33	—13
Bombay	0·01	—0·19	—95	1·85	+0·29	+19	41·65	+1·78	+4	6·65	+3·15	+90	50·16	+4·98	+11
Central India	0·23	—0·62	—73	0·55	—0·31	—36	34·13	+0·80	+2	0·43	—1·14	—73	35·34	—1·87	—3
Central Provinces	0·81	—0·50	—38	1·10	—0·57	—34	43·79	+3·12	+8	1·92	—0·84	—30	47·62	+1·21	+3
Hyderabad	1·02	+0·60	+143	1·52	—0·39	—20	25·36	—1·04	—4	4·44	+0·60	+16	32·34	—0·23	—1
Mysore	0·61	+0·36	+144	7·26	+1·91	+36	25·78	+3·42	+15	14·11	+5·94	+73	47·76	+11·63	+32
Madras	1·12	—0·06	—5	10·55	+4·54	+76	26·36	—2·62	—9	21·18	+5·38	+34	59·21	+7·24	+14
Mean of India	0·67	—0·34	—34	4·89	—0·17	—3	35·54	—1·14	—3	5·92	+0·90	+18	47·02	—0·75	—2

TABLE A-10.—*Average over the 33 sub-divisions of the actual rainfall with its departure from normal for the four seasons of the year and for the whole year, 1932.*

SUB-DIVISION.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO SEPTEMBER.			OCTOBER TO DECEMBER.			WHOLE YEAR.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1. Bay Islands	0·60	—1·09	—64	18·89	+4·58	+32	68·38	+8·09	+15	20·04	—0·96	—5	107·01	+11·52	+12
2. Lower Burma	0·39	+0·06	+18	10·19	—3·80	—27	95·82	—3·24	—3	9·59	—1·26	—12	115·99	—8·28	—7
3. Upper Burma	0·49	+0·16	+48	6·40	—1·23	—16	32·21	1·07	+3	6·78	—1·00	—13	45·88	—1·00	—2
4. Assam	2·06	—0·14	—6	24·11	—0·90	—4	70·44	+4·30	+7	8·40	+1·45	+21	105·01	+4·71	+5
5. Bengal	0·75	—0·54	—42	12·31	—0·35	—3	48·71	—6·32	—11	9·22	+5·23	+54	70·99	—3·98	—5
6. Orissa	1·47	—0·16	—10	5·15	—0·62	—11	43·40	—1·39	—3	5·94	+2·46	+38	55·96	+0·29	0
7. Chota Nagpur	1·30	—0·60	—32	2·32	—1·35	—37	38·88	—4·73	—11	4·03	+0·56	+16	46·53	—6·12	—12
8. Bihar	0·35	—0·76	—68	1·50	—1·81	—55	29·76	—11·42	—28	4·50	+1·78	+65	36·11	—12·24	—25
9. United Provinces, East.	0·26	—0·92	—78	0·38	—0·81	—68	25·35	—9·27	—27	1·66	—0·63	—28	27·65	—11·63	—30
10. Do. do., West.	0·19	—1·60	—89	1·00	—0·56	—36	31·14	—1·35	—4	0·06	—0·42	—30	33·29	—3·93	—11
11. Punjab, East and North	1·27	—0·94	—43	1·76	—0·31	—15	16·58	—1·47	—8	1·05	0·10	+11	20·66	—2·62	—11
12. Do., Southwest	0·88	—0·15	—15	1·25	—0·33	—21	7·05	+0·09	+1	0·27	—0·12	—31	9·45	—0·51	—5
13. Kashmir	6·30	—0·86	—12	7·26	—2·80	—28	19·13	—1·72	—8	2·42	—1·05	—30	35·11	—6·43	—15
14. North-West Frontier Province	2·27	—0·18	—7	4·67	+0·47	+11	8·83	+1·05	+13	0·46	—0·69	60	16·23	+0·65	+4
15. Baluchistan	0·70	—1·71	—71	1·49	—0·76	—34	4·60	+2·12	+85	0·24	—0·81	—77	7·03	—1·16	—14
16. Sind	0·02	—0·50	—96	0·25	—0·24	—49	6·01	+1·12	+29	0·01	—0·19	—95	6·49	+0·19	+3
17. Rajputana, West	0·05	—0·37	—88	0·60	—0·17	—22	10·47	—0·32	—3	0·04	—0·46	—92	11·16	—1·32	—11
18. Do., East	0·04	—0·61	—94	0·99	+0·07	+8	21·35	—2·32	—10	0·08	—0·83	—91	22·46	—3·69	—14
19. Gujarat	0	—0·19	—100	0·02	—0·41	—95	31·31	+0·73	+2	1·44	+0·29	+25	32·77	+0·42	+1
20. Central India, West	0·09	—0·60	—87	0·55	—0·25	—31	35·11	+3·20	+10	0·41	—1·03	—72	36·16	+1·32	+4
21. Do. do., East	0·69	—0·69	—50	0·54	—0·56	—51	30·05	—6·98	—18	0·53	—1·50	—74	32·71	—9·73	—23
22. Berar	0·01	+0·16	+21	1·29	+0·18	+16	31·34	+3·32	+12	2·00	—0·54	—21	35·54	+3·12	+10
23. Central Provinces, West	0·67	—0·67	—50	1·24	—0·19	—13	45·25	+4·14	+10	1·60	—1·09	—41	48·76	2·19	+5
24. Do. do., East	0·85	—0·72	—46	0·90	—1·22	—58	49·36	+2·22	+5	2·12	—0·82	—28	53·23	—0·54	—1
25. Konkan	0	—0·15	—100	2·68	+0·68	+34	99·84	—1·04	—1	11·50	+6·04	+111	114·02	+5·53	+5
26. Dombay, Deccan	0·01	—0·23	—96	2·74	+0·63	+30	27·64	+3·38	+14	8·28	+3·98	+93	38·67	+7·76	+25
27. Hyderabad North	0·60	+0·19	+46	1·31	—0·30	—19	29·28	+0·44	+2	3·77	+0·34	+10	34·96	+0·67	+2
28. Do., South	1·49	+1·07	+255	1·76	—0·49	—22	21·00	—2·70	—11	5·18	+0·88	+20	29·43	—1·24	—4
29. Mysore	0·61	+0·35	+144	7·26	+1·91	+36	25·78	+3·42	+15	14·11	+5·94	+73	47·76	+11·63	+32
30. Malabar	0·25	—0·48	—34	27·70	+15·21	+122	60·12	—6·06	—9	31·04	+10·98	+55	119·81	+19·63	+20
31. Madras, Southeast	1·17	—0·29	—20	6·83	+1·98	+46	10·79	—1·08	—9	23·17	+5·20	+29	41·46	+5·81	+16
32. Do., Deccan	0·29	—0·05	—15	2·11	—0·37	—15	14·18	—1·06	—7	6·94	+0·20	+3	23·52	—1·28	—5
33. Do. Coast, North	1·52	+0·75	+97	3·29	—0·24	—7	23·31	—2·33	—9	13·06	+1·54	+16	41·18	+0·02	0

TABLE A-11.—*Average over the 33 sub-divisions of actual number of rainy days with their departures from normal for the four seasons of the year, and for the whole year, 1932.*

SUB-DIVISION.	JANUARY AND FEBRUARY.		MARCH TO MAY.		JUNE TO SEPTEMBER.		OCTOBER TO DECEMBER.		WHOLE YEAR.	
	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.
1. Bay Islands	0·5	—1·5	20·5	+4·0	61·0	—11·5	28·0	+0·6	110·0	—8·4
2. Lower Burma	0·8	+0·2	12·1	—3·1	84·5	—4·1	14·5	0	111·9	—7·0
3. Upper Burma	1·1	+0·2	9·9	—1·6	42·8	—0·8	10·1	—1·0	63·9	—3·2
4. Assam	5·4	+0·4	29·3	—3·0	72·7	+4·2	13·4	+4·4	120·8	+6·0
5. Bengal	1·6	—0·8	12·0	—3·8	58·0	—1·7	10·4	+3·8	82·0	—2·5
6. Orissa	1·2	—1·4	6·9	—2·4	53·7	—0·4	9·5	+2·2	71·3	—2·0
7. Chota Nagpur	1·9	—1·6	5·1	—1·9	49·9	—2·6	6·2	+1·3	63·1	—4·8
8 Bihar	0·9	—1·5	2·8	—2·6	39·1	—5·1	5·7	+2·4	48·5	—6·8
9. United Provinces, East	0·6	—2·1	0·9	—1·7	31·3	—7·0	2·5	+0·1	35·3	—10·7
10. Do. do., West	0·5	—3·0	2·9	—0·7	31·0	—2·6	1·6	—0·3	36·0	—6·6
11. Punjab, East and North	1·8	—0·6	4·9	+0·4	19·1	—0·6	1·6	—0·2	27·4	—1·0
12. Do., Southwest	2·0	—0·5	3·5	—0·4	9·9	+0·9	0·8	—0·1	16·2	—0·1
13. Kashmir	6·3	—3·8	13·7	—2·2	19·7	—4·8	4·1	—1·6	43·8	—12·4
14. North-West Frontier Province	4·0	—1·0	8·7	+0·1	11·4	+0·3	1·5	—0·8	25·6	—1·4
15. Baluchistan	1·8	—3·3	4·4	—0·9	7·5	+3·3	0·9	—1·6	14·6	—2·5
16. Sind	0·1	—1·2	0·8	—0·3	9·0	+2·7	0·1	—0·3	10·0	+0·9
17. Rajputana, West	0·2	—0·8	1·8	0	13·2	—0·7	0·2	—0·5	15·4	—2·0
18. Do., East	0·1	—1·5	2·6	+0·3	26·2	—2·4	0·8	—1·2	29·2	—4·8
19. Gujarat	0	—0·4	0	—0·9	34·4	—0·1	2·6	+1·0	37·0	—0·4
20. Central India, West	0·2	—1·3	1·6	—0·2	34·0	—1·9	0·7	—1·5	36·5	—4·9
21. Do. do., East	1·1	—1·8	1·8	—0·8	36·6	—4·9	1·3	—1·6	40·8	—9·1
22. Berar	2·0	+0·6	3·1	+0·6	41·6	+3·3	3·0	—1·0	49·7	+3·5
23. Central Provinces, West	1·5	—0·9	3·0	—0·3	48·1	+0·9	2·1	—1·7	54·7	—2·0
24. Do. do., East	1·7	—1·0	2·7	—1·9	52·8	+1·2	3·1	—1·1	60·3	—2·8
25. Konkan	0	—0·3	3·9	+1·3	80·5	—3·3	14·5	+7·1	98·9	+4·8
26. Bombay, Deccan	0	—0·5	5·8	+1·8	40·0	+3·1	11·8	+5·2	57·6	+9·6
27. Hyderabad, North	1·4	+0·6	3·4	—0·1	44·8	+4·4	6·5	+1·3	56·1	+6·2
28. Do., South	2·7	+1·9	4·0	—0·6	36·2	—1·2	7·8	+1·2	50·7	+1·3
29. Mysore	1·0	+0·6	10·7	+1·8	36·0	+2·3	21·7	+9·3	69·4	+14·0
30. Malabar	1·5	—0·6	24·5	+7·6	73·1	+5·6	32·6	+7·4	131·7	+20·0
31. Madras, Southeast	1·5	—0·5	8·4	+1·8	16·7	—1·5	28·2	+6·8	54·8	+6·6
32. Do., Deccan	0·6	+0·1	4·4	—0·1	25·7	+0·5	12·9	+3·2	43·6	+3·7
33. Do. Coast, North	2·3	+1·2	4·8	—0·8	34·8	—1·7	15·1	+3·5	57·0	+2·2

TABLE A-12.—*Showing rainfall of 10" and over, with amounts in the preceding and following 24 hours, during the year 1932.*

BURMA.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Akyab	Akyab	11th June	0·58	10·52	5·14
Toungoo	Shwegyin	29th July	2·18	16·23	7·74
Pegu	Nyaunglebin	29th July	1·86	13·35	6·20
Sandoway	Sandoway	19th July	1·26	10·05	3·63
Kyaukpyu	An	28th July	4·10	11·25	4·62
Akyab	Kyauktaw	29th July	7·20	11·85	3·90
Do.	Myohaung	29th July	3·90	11·30	6·15

ASSAM.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Sylhet	Lallakhal	11th May	3·03	10·20	0·12
Khasi and Jaintia Hills.	Shillong	25th May	1·17	10·35	0·33
Do.	Mawphlang	25th May	2·46	10·73	1·24
Do.	Cherrapunji Police Station.	25th May	1·10	10·00	4·12
Do.	Do.	27th May	4·12	31·40	14·15
Do.	Do.	28th May	31·40	14·15	27·19
Do.	Do.	29th May	14·15	27·19	4·30
Do.	Cherrapunji Welsh Mission House.	25th May	1·51	18·08	4·72
Do.	Do.	27th May	4·72	25·50	15·20
Do.	Do.	28th May	25·50	15·20	21·93
Do.	Do.	29th May	15·20	21·93	4·50
Kamrup	Menoka	26th June	7·00	11·55	6·60
Sylhet	Lallakhal	29th June	6·32	10·28	4·62
Do.	Samanbagh	13th June	0·78	12·48	0·82
Do.	Sunamganj	4th June	0·15	10·00	0
Cachar	Kukicharra	14th June	1·12	10·47	0·16
Garo Hills	Tura	28th June	2·18	12·00	0·31
Khasi and Jaintia Hills.	Cherrapunji Police Station.	16th June	3·04	13·17	4·67
Do.	Do.	19th June	5·31	10·32	6·15
Do.	Do.	26th June	4·87	12·26	6·32
Do.	Do.	29th June	6·64	13·74	7·50
Do.	Cherrapunji Welsh Mission House.	19th June	4·21	14·25	5·69
Do.	Do.	26th June	5·17	13·79	8·75
Do.	Do.	29th June	7·80	15·48	8·59
Lushai Hills	Lungleh	13th June	0·10	13·95	4·27
Do.	Sherkawn	13th June	0·12	11·90	4·62
Do.	Demagiri	12th June	0·13	11·22	3·42

ASSAM—*contd.*

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Sylhet	Sunamganj	6th July	0·65	10·22	0·35
Khasi and Jaintia Hills.	Cherrapunji Police Station.	6th July	7·62	14·19	3·02
Do.	Cherrapunji Welsh Mission House.	6th July	8·62	16·75	2·28
Sylhet	Sunamganj	19th Aug.	1·52	10·70	1·25
Khasi and Jaintia Hills.	Mawphlang	24th Aug.	0·24	10·75	2·45
Do.	Cherrapunji Police Station.	23rd Aug.	7·81	28·86	24·10
Do.	Do.	24th Aug.	28·86	24·10	12·53
Do.	Do.	25th Aug.	24·10	12·53	1·41
Do.	Cherrapunji Welsh Mission House.	15th Aug.	3·04	10·76	3·46
Do.	Do.	23rd Aug.	8·44	26·15	32·80
Do.	Do.	24th Aug.	26·15	32·80	12·32
Do.	Do.	25th Aug.	32·80	12·32	1·77
Do.	Jowai	23rd Aug.	1·90	10·50	8·52

BENGAL.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Faridpur	Takerhat	27th April	0·14	12·61	0·34
Jalpaiguri	Kalchini	20th June	8·21	10·17	0·20
Bakarganj	Bauphal	28th June	0·30	10·08	1·97
Chittagong Hill Tracts.	Rangamati	14th June	7·55	15·50	0·06
Do.	Lama	29th June	1·48	10·21	2·47
Do.	Kaptai	13th June	0·98	11·76	9·30
Cooch-Behar	Cooch-Behar (Observatory).	20th June	8·64	10·32	0·37
Do.	Mathabhanga	19th June	1·05	10·17	7·45
Do.	Fulbaria (Tufanganj).	19th June	3·57	10·41	0·23
Jalpaiguri	Kumargram	20th Aug.	7·30	12·80	2·47

UNITED PROVINCES.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Gorakhpur	Hata	25th June	3·56	11·70	0
Dehra-Dun	Rajpur	13th Aug.	0·90	10·00	6·00
Nainital	Nainital	21st Aug.	0·28	10·64	3·15
Sitapur	Sitapur	12th Sept.	0	10·40	0

TABLE A-12.—*Showing rainfall of 10" and over, with amounts in the preceding and following 24 hours, during the year 1932*—concld.

RAJPUTANA.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Jhalawar.	Dug	7th Sept.	5·15	10·30	4·66

BOMBAY.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Satara	Mahabaleshwar (Malcolmpeth).	14th July	2·30	10·34	6·44
Cutch	Mandvi	15th July	4·20	12·23	0·17
Satara	Mahabaleshwar (Malcolmpeth).	6th Sept.	8·00	10·11	11·12
Do.	Do.	7th Sept.	10·11	11·12	5·65
Surat	Valod	6th Sept.	1·97	10·50	0·67
Do.	Waghai	6th Sept.	2·10	10·20	5·12

CENTRAL INDIA.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Gwalior	Agar, Western Malwa.	6th Sept.	4·53	12·65	3·35
Indore	Tarana	6th Sept.	4·00	12·28	2·23
Bhopal	Narsingarh	23rd Sept.	3·08	10·86	0·09
Do.	Kotra	23rd Sept.	4·95	11·55	0
Malwa Agency	Sitamau	6th Sept.	2·13	10·13	4·64

CENTRAL PROVINCES AND BERAR.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Bhandara	Sakoli	24th July	0·13	11·52	0·47
Hoshangabad	Pachmarhi	13th July	1·40	12·45	0·05

CENTRAL PROVINCES AND BERAR—*contd.*

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Hoshangabad	Sohagpur	23rd Sept.	0·40	10·84	0·48
Do.	Pachmarhi	23rd Sept.	1·78	13·79	2·88
Chhindwara	Tamia	23rd Sept.	3·25	13·50	0·63

MYSORE.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Shimoga	Tirthahalli	3rd Aug.	2·55	10·75	7·14

MADRAS.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Travancore II, Kottayam Division.	Kottayam (Taluk Cutcherry).	26th May	1·68	11·27	1·24
Travancore State III, Quilon Division.	Tiruvalla	27th May	8·95	10·10	0·55
Malabar	Manjeri	25th May	1·78	10·08	3·19
Do.	Calicut	25th May	2·50	10·57	2·19
Do.	Tirurangadi	20th May	5·90	11·62	3·16
South Kanara	Hosdrug	20th May	4·35	14·39	4·96
Do.	Do.	25th May	2·29	10·85	1·28
Travancore State III, Quilon Division.	Karunagapalli	30th Aug.	1·66	10·00	0·20
Vizagapatam Agency	Guden (Lamasinghi)	1st Nov.	0	16·00	13·60
Do.	Do.	2nd Nov.	16·00	13·60	0
South Arcot	Manambadi (Porto Novo).	25th Nov.	2·85	10·01	0
Tanjore	Tranquebar	25th Nov.	3·52	14·95	0
Do.	Negapatam	25th Nov.	5·13	12·18	0
Do.	Tiruppundi	25th Nov.	6·50	10·75	0
Do.	Vedaranniyam	25th Nov.	8·12	12·52	0
Do.	Negapatam	3rd Dec.	2·43	10·14	0·08

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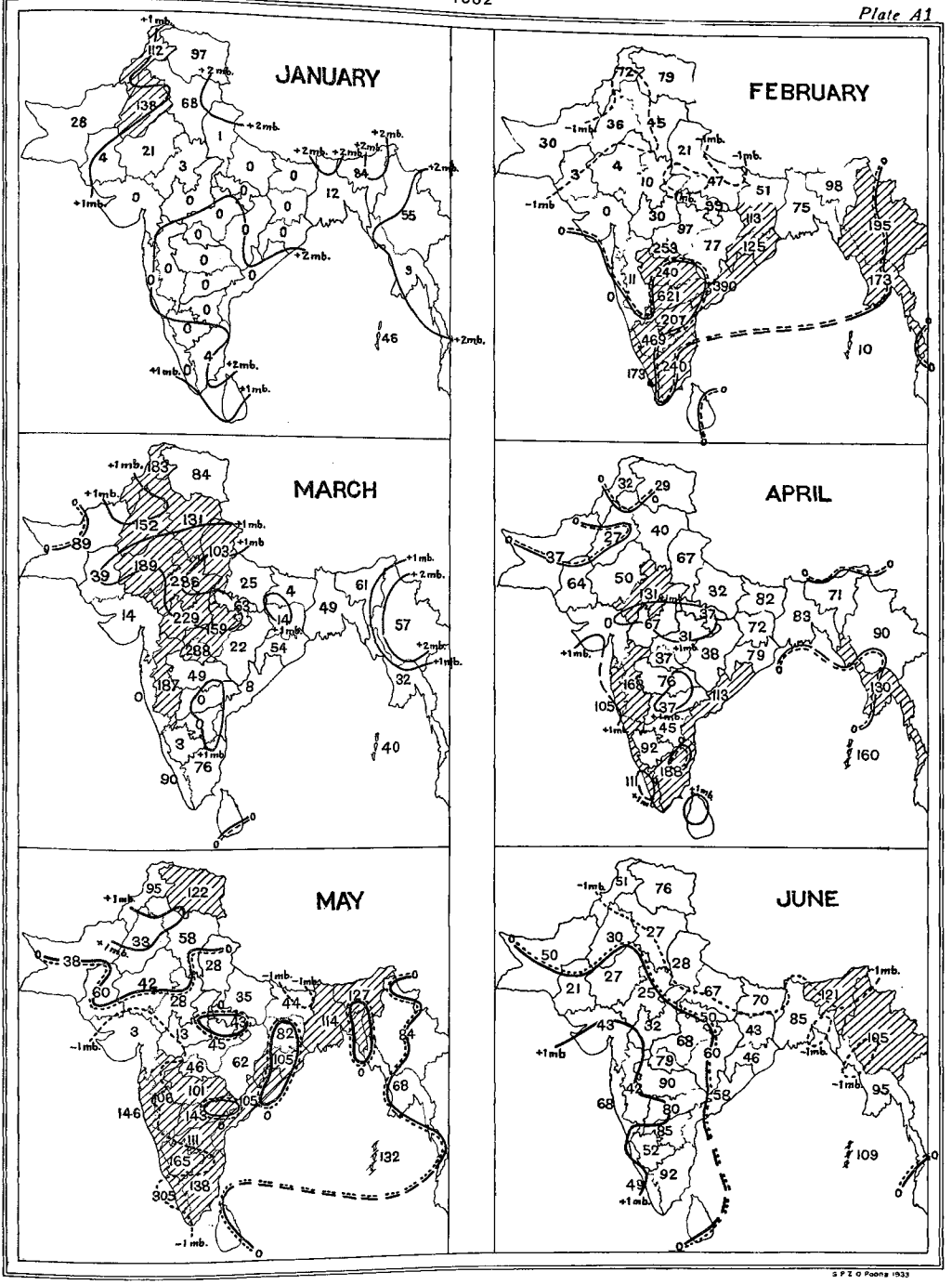
SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS)
AND MEAN MONTHLY PRESSURE ANOMALIES (IN MILLIBARS)
1932

Plate A1

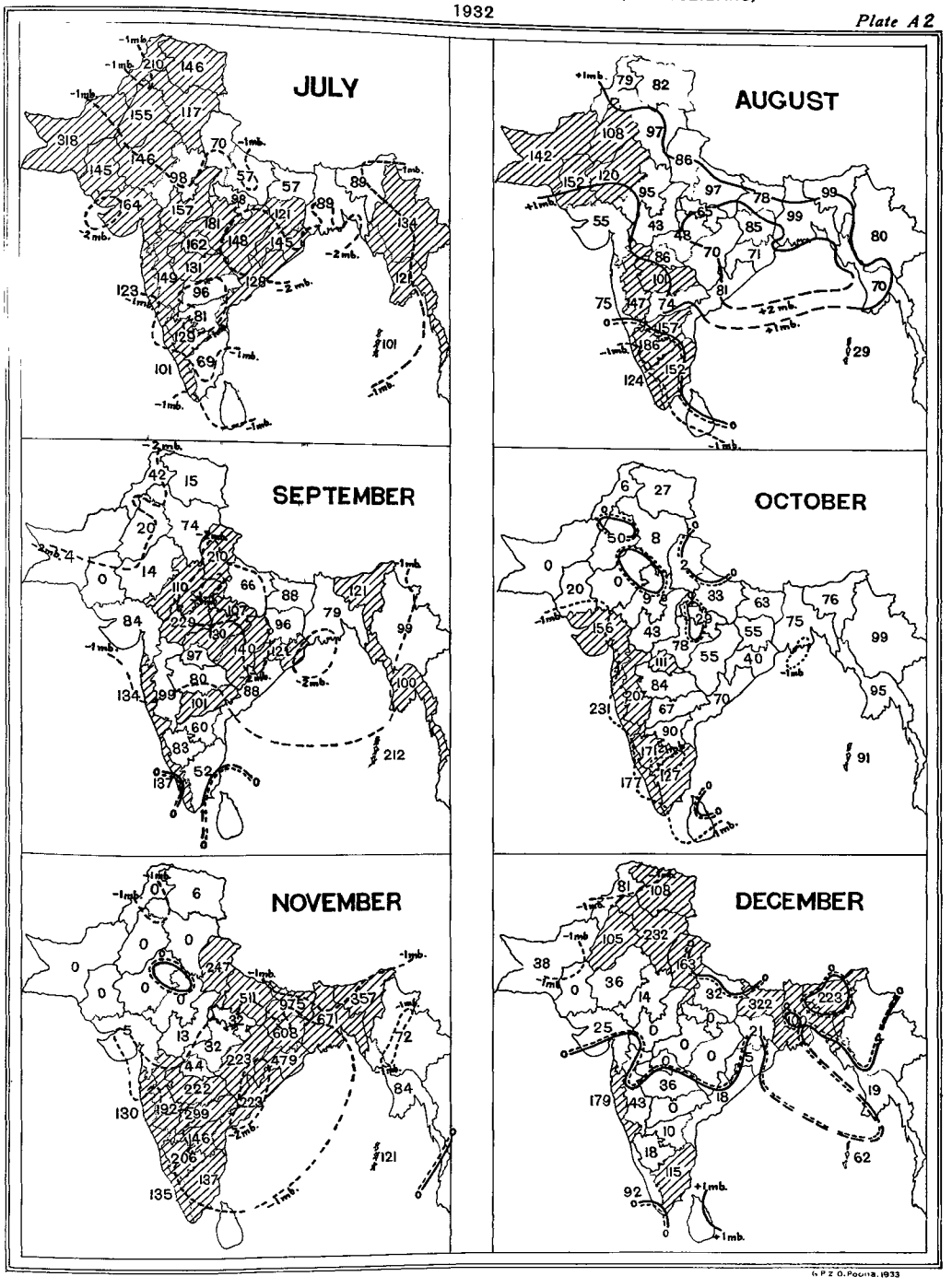


S P Z O Poona 1933

SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS)
AND MEAN MONTHLY PRESSURE ANOMALIES (IN MILLIBARS)

1932

Plate A 2



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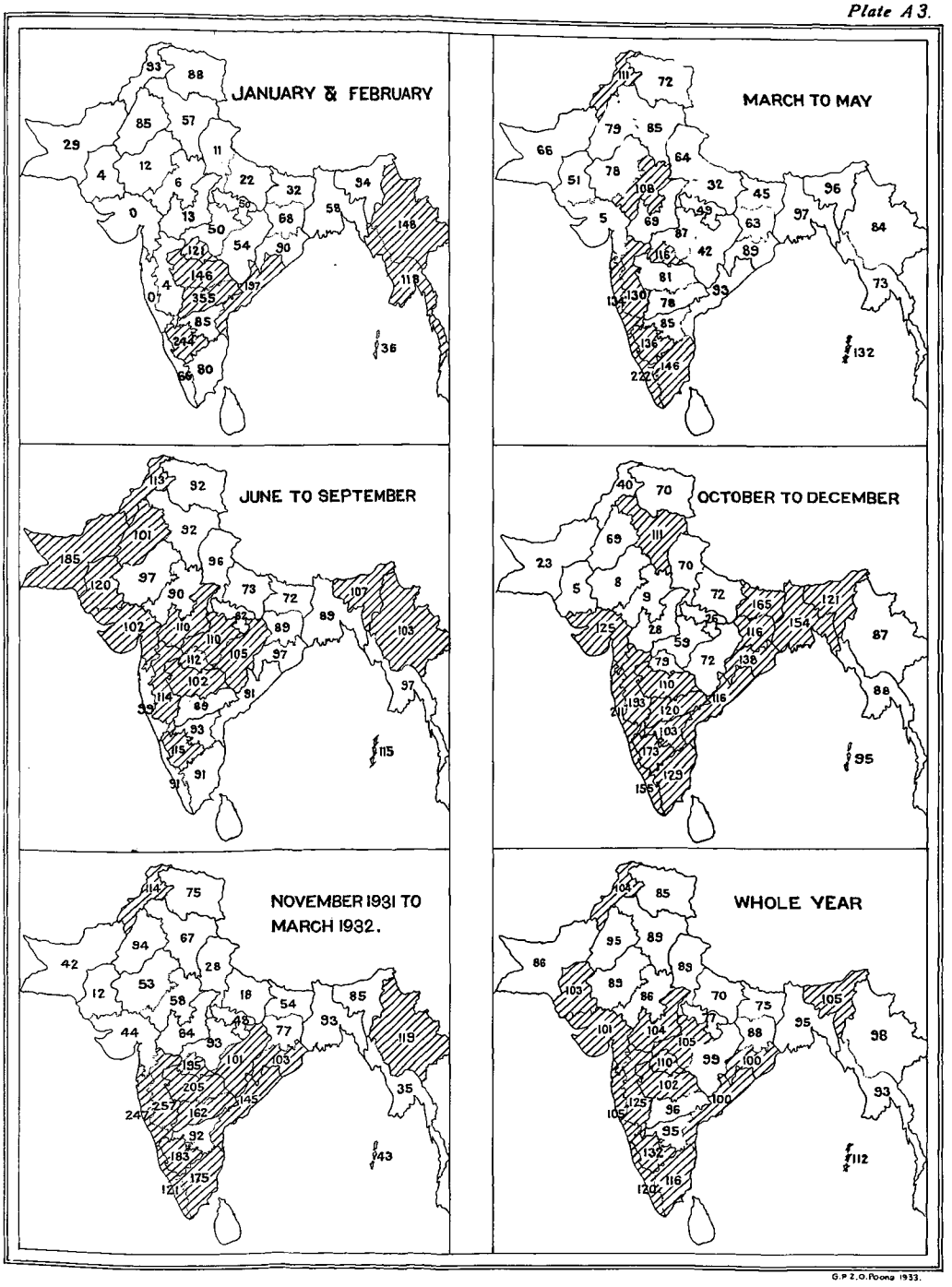
SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS)
IN DIFFERENT PERIODS OF THE YEAR 1932

Plate A 3.



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Standard Book and Map Agency, Booksellers and Publishers, Ballygunge.
Karnataka Publishing House, Bangalore City.
Bheema Sons, Fort, Bangalore City.
Superintendent, Bangalore Press, Lake View, Mysore Road, Bangalore City.

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Errata to India Weather Review, Annual Summary for 1932, Part C.

Page C2, second table of observations for 21st May, column for weather remarks :—

Delete Squalls *against* " Masimpur " *and insert* Squalls *against* " Shahjahan ".

Page C10 :—

Section 4, Storm of 18th-21st September 1932, *should read after* section 12, Depression of 2nd-3rd September 1932.

Page C11, first column, line 5 from the bottom :—

For ·035" *read* 0·35".

Page C13, heading of section 7 :—

For July 1933 *read* July 1932.

Page C20, Table II, observations of Table Island, column for average speed past 24 hours :—

For 5, 6, 15, 15, 16, *respectively, read* 4, 4, 20, 20, 12.

Page C20, same table, column for extracts from weather diary, second last line of remarks for 20th October :—

For from thunder *read* thunder from.

Page C21, Table III, date 20th October, hour 6½ :—

Delete the figures for Latitude and Longitude.

Page C21, same table, same date, hour 20 :—

Delete the first row of figures and remarks referring to this hour.

MGIPC—M—VIII-3-178—17-5-34—430.

ANNUAL SUMMARY 1932.

PART C.

STORMS AND DEPRESSIONS.

DEPRESSIONS AND CYCLONIC STORMS.

During the year 4 storms and 7 depressions formed in the Bay of Bengal, 2 storms and 2 depressions in the Arabian Sea and one depression over west Bengal. The dates on which the storms occurred and the greatest barometric depths observed are summarised in the Table below :—

TABLE.

Serial No.	Locality.	Month.	Date.	Greatest observed barometric depth.
1	Bay of Bengal . .	May .	22—25	0·55″
2	Arabian Sea . .	May .	24—25	0·40″
3	Bay of Bengal . .	September	18—21	0·35″
4	Arabian Sea . .	October .	14—22	..
5	Bay of Bengal . .	October .	19—22	0·35″
6	Bay of Bengal . .	November.	23—26	..

The detailed descriptions of these storms and depressions are, as usual, followed by a list of western disturbances of the year, of the more important local storms, and of the localities in which the winds of force 9 or more were experienced by ships in the Indian Seas.

1. *Depression of 20th to 22nd May.*—Signs of a temporary advance of the monsoon in the neighbourhood of Ceylon were noticeable after the 7th May ; Colombo had 2″ of rain on the 8th, 5″ on the 9th and 7″ on the next day. Rough seas and strong winds accompanied with squalls were reported from the southeast Arabian Sea off Ceylon on the morning of the 10th. Pressure began to fall in the southeast Arabian Sea after the 10th, and a trough of low pressure appeared there on the 12th, Colombo having a SW-ly wind of force 6 at 0·5 Km. (the limit of the flight) that afternoon. On the 13th Trivandrum recorded 3″ of rain. On the 15th, a further concentrated fall in pressure occurred in the neighbourhood of the Laccadives and fairly widespread thunderstorm rain occurred in south Madras on that day. Upper winds at Colombo were from W to SW and of force 6 to 7 upto 1·5 Km. (the limit of the flight) on the 16th morning, while on that day Minicoy had 1½″ of rain and Amini Devi ½″. On the 17th, upper winds at Trivandrum were from SW at least upto 4 Km. (the limit of the afternoon flight) with force 3 upto 1·5 Km. and force 7 to 8 above. Widespread rain occurred in south Madras, with locally very heavy rain in Malabar and Coorg on the 17th ; Minicoy and Amini Devi also had 1″ each on that day. The upper winds at Trivandrum had further strengthened on the 18th and, on that day, Mangalore upper winds were moderate to strong from between NW and NE upto 4 Kms. On the 19th morning, it was noticed that a cyclonic circulation was being established off Malabar.

By the 20th morning, a deep depression had formed with centre near Lat. 12½°N and long. 74°E, the barometric depth at the centre being more than 0·3″ as indicated by the coastal observations ; in the previous 24 hours, rainfall had extended into the Bombay Deccan and the Konkan. A northward movement of the depression was indicated by a change in Mangalore upper winds which were blowing from a S-ly to SW-ly direction (force 7 to 9) at least up to 1 Km. (the limit of the flight) on the 20th afternoon. Between the 20th and 21st, the wind at Amini Devi had backed to southwest from west-northwest and had also increased in strength (force 5 to 6). The depression was centred near Lat. 13½°N and Long. 73°E on the 21st morning. As indicated by the coastal observations, the barometric depth at the centre of the depression had probably not appreciably increased since the previous day. The depression continued to move slowly northwestwards and weakened at the same time, and its centre moved to near Lat. 14°N and Long. 72½°E by the 22nd morning. In the course of that day, the cyclonic circulation had broken up and on the next morning a trough of low pressure lay off the Malabar Konkan coast.

2. *Severe Cyclone of 22nd—25th May, 1932.*—On the 15th May, associated with an advance of the southwest monsoon conditions became unsettled in the southwest Bay of Bengal and a trough of low pressure extended in the south Bay from Ceylon to the west of the Andamans. During the course of next five days, the unsettled conditions persisted and moved gradually, though slowly, towards the central Bay along with a northward advance of the monsoon. Under the influence of the unsettled conditions fairly widespread thunderstorm rain occurred in southeast Madras from 14th to 18th, and in the north Madras coast on the 17th and 18th.

By the morning of the 21st May, the unsettled conditions appeared to have concentrated between the latitudes 10° and 18° and longitudes 86° and 94°. The observations from

the following ships indicated that on that day a cyclonic circulation existed over the Bay.

Date.	Steamer.	Hour.	Position.		Wind.		Weather Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
			° ′	° ′			
21st May.	"Chakrata" .	10	1030	8730	NW	5	Rainsqualls.
	"Barala" ..	7	1130	8530	NW	5	Rain.
	"Erinpura" .	6½	1518	9254	SE	4	Rain.
	"Binfield" .	7	1830	9130	ESE	5	
	"Chinkoa" .	7½	1748	9148	ESE	5	
	"Ethiopia" .	8 (log.)	1854	8530	NE	3	
	Ditto .	6½	1354	8513	NE	4	

The observations from the following ships and stations indicate that by the same evening the unsettled conditions became strongly pronounced :—

Date.	Steamer.	Hour.	Position.		Wind.		Sea.	Weather Remarks.
			Lat. N.	Long. E.	Dir.	Force.		
			° ′	° ′				
21st May .	"Chakrata" .	16	1030	8730	NW	5	Smooth or slight . .	Weather better.
	"Port Blair" .	17	..	..	SW	3		
	"Masimpur" .	21½	13 36	92 18	SSW	5	Rough	Squalls.
	"Shahjahan"	16	13 30	93 30	S	5		
	"Kutsang" .	15½	15 30	92 30	SE	4	Moderate	Showers.
	Ditto .	18½	16 00	92 12	SSE	5	Moderate	Rain with squalls.
	"Ranee" .	19	16 30	90 30	SSE	5	Moderate	Suspicious.
	"Aungban" .	21½	18 12	91 00	SE	5	Moderate	Thunderstorm.
	"Karoa" .	16	18 30	90 30	SE	5	Moderate	Squalls.
	"Ethiopia" .	15½	14 12	87 18	NNE	3	Slight	Heavy rain.

The monsoon continued to advance northwards and by the 22nd morning it had spread over the whole of the Bay. Rough seas, rainsqualls and strong winds were reported from almost all the ships in the South and Central Bay. Meanwhile pressure kept on falling over the Central Bay and the unsettled conditions which had moved slightly westwards began to develop into a depression with central region near Lat. 16°N, Long. 86°E. This will be clear from the following ships' observations :

Date.	Steamer.	Hour.	Position.		Wind.		Sea.	Weather Remarks.
			Lat. N.	Long. E.	Dir.	Force.		
			° ′	° ′				
22nd May .	"City of Leicester"	8	14 16	85 18	WNW	4	Moderate	Overcast
	"Erinpura" .	7	14 12	87 12	W	5	Moderate	Squall.
	"Erinpura" .	9½	14 12	86 30	WNW	4	Moderate	Squall.
	"Kutsang" .	6½	17 48	90 48	SE	6	Rough	Rain.
	"Ranee" .	7	15 30	89 30	SSE	2		
	"Tairea" .	6½	15 06	90 18	S	5	Moderate	Rain.
	"Jugo Maru" .	8	..	..	NE	5		

The upper winds at Vizagapatam and Madras from 1 Km. upwards on the 22nd morning suggested that the cyclonic circulation over the Bay off the Circars coast extended at least up to 4 Km.

Pressure continued to fall over the North and Central Bay, and by the early morning of 23rd a depression had formed with its central region near Lat. 17½°N, Long. 86½°E, the depression was then moving in a northerly direction. The following extracts from the logs of *S. S.* "*Chilka*," "*Magdapur*" and "*Kutsang*" which lay quite close to its centre on the 23rd as well as from those of some other ships are of interest :—

Date.	Steamer.	Hour.	Position.		Wind.		Sea & Swell.	Weather Remarks.
			Lat. N.	Long. E.	Dir.	Force.		
			° ′	° ′				
23rd May .	"Chilka" .	1	18 30	86 30	ENE	7	Rough, inconspicuous (confused).	Heavy rain.
		7	18 30	87 30	ESE	7	Rough, swell conspicuous (confused)	Squally.
		8	18 06	87 30	SE	6	Rough, heavy swell (confused)	Overcast squally.
		16	19 30	85 30	ENE	5	Rough, swell inconspicuous (confused).	Rain.
		20	17 25	89 08	SW	7	Very rough, swell heavy (SW)	Overcast squally.
		22	17 30	89 30	SW	9	Very rough, swell moderate (SW)	Squally.
24th May .	Ditto .	6½	17 30	89 30	SW	7	Very rough, swell conspicuous (confused).	Squally.
		7	16 30	90 30	SW	7	Rough.	
		8	16 45	91 43	SW	6	Rough, swell heavy (SW) .	Overcast squally.
		16	16 30	92 30	SW	7	Very rough, swell conspicuous (confused).	Squally.
23rd May .	"Kutsang" .	0	..	..	SE	5 or 6	Very rough . . .	Overcast squally rain.
		0½	20 18	88 48	ESE	5	Very rough, swell heavy (SE)	Squally showers.
23rd May .	"Kutsang" .	4	..	..	E	5	Very rough . . .	Overcast rain squally.
		8	..	..	ENE	5	Moderate, heavy swell .	Overcast squally rain.
		12	..	..	NNE	6	Rough	Overcast rain.
23rd May .	"Magdapur" .	1½	17 24	86 42	SW	7	Very rough, swell confused (SW).	Squally.
		8	15 56	86 00	WSW	7	Very rough, swell heavy (confused).	Overcast squally fierce squalls of storm force.
24th May .	Ditto .	2½	20 30	87 54	WSW	5	Very rough, swell heavy .	Distant lightning
		6½	18 00	86 54	SW	7	Rough, swell heavy . .	Distant lightning.
		8	17 44	87 13	SW	7	Very rough, swell heavy (SW)	Overcast.
		18½	19 06	87 42	WSW	6	Very rough, swell heavy (SW)	Distant lightning (showers).
		20	19 30	88 00	WSW	6	Rough, swell heavy (SW) .	Overcast.
23rd May .	"City of Leicester"	4	..	..	W	7	Heavy swell . . .	Overcast.
		8	16 05	86 04	W	8	High	Overcast.
		12	16 19	86 09	W	10	High	Overcast rain squally.
		16	16 30	86 30	W	7	Rough.	
		20	..	..	WSW	8	High	Overcast rain squally.
24th May .	Ditto .	0	..	..	W	8	High	Overcast.
		4	..	..	SW	9	High	Overcast squally rain.

Date.	Steamer.	Hour.	Position.		Wind.		Sea & Swell.	Weather Remarks.
			Lat. N.	Long. E.	Dir.	Force.		
			° ′	° ′				
24th May .	"City of Leicester."	6½	18 00	87 00	W	8	Moderate, swell from SW .	Continuous rain distant lightning.
		8	17 47	86 51	SW	7	High	Overcast squally rain.
		12	18 04	87 00	SW	7	Rough	Overcast squally rain.
		16	..	..	SW	6	Rough	Overcast squally.
		20	..	..	SW	6	Rough	Overcast squally.
23rd May .	"Haresfield" .	15½	19 24	87 36	ESE	5	Rough, moderate swell from E.	Squally.
		16	..	..	ESE	5	Rough, moderate swell .	Overcast rain squally heavy rainsqualls.
		17½	19 12	87 48	SSE	7	Very rough. swell confused from SE.	Signs that tropical storm has formed.
		20	..	..	S/E	9	Very rough, heavy swell (confused).	Overcast.
		21½	19 00	88 00	SSW	9	Precipitous, swell confused from S.	(Gale) signs that tropical storm has formed.
		22	..	..	SW/W	9	....	Wind veering slowly to westwards.
24th May .	..	0	..	..	W/S	9	High, swell heavy (confused)	Overcast rain squally heavy rainsqualls.
		4	..	..	W	6	Rough, swell heavy . .	Overcast.
		8	18 27	87 46	W/S	7	Very rough, swell heavy (confused).	Thunder-storm, squally rain, heavy squalls of wind and rain.
23rd May .	"Tairea" .	0½	16 30	91 30	SSE	4	Very rough, swell low from SW.	
23rd May .	"Pasha" .	22	15 36	86 24	WSW	7	Rough, swell low from SW .	Squally.
24th May .	"Dogra" .	10	In river Hooghly 22 05	88 14	N	7	....	Gloomy overcast rain.
		11	..	..	NE	9	....	Gloomy overcast rain.
		12	..	..	NW	10	....	Gloomy overcast rain.
		13	..	..	NNW	9	....	Gloomy overcast squally.
		14	..	..	WNW	9	....	Gloomy overcast squally.
		16	..	..	W	6	....	Cloudy squally.
24th May .	"Sirsa" .	0	..	..	ESE	5	Rough, swell heavy . .	Overcast, fierce squalls.
			Reached Sandheads at 2-15.					
		4	At Sandheads .		ESE	6	Rough, swell heavy from SSE	Overcast, squally, rain, red signals from pilot.
		6	..	..	N	12	....	"No boating" from 6-7 hours wind increased to hurricane force with driving rain.
		7	..	..	N	12	....	
		8	..	..	NW	9-10	Rough, swell high (confused)	Rain, squally, squalls of hurricane force with rain.
		12	..	..	NW	Gale	High, heavy swell (confused)	Strong squall.
		16	..	..	SW	6	Rough, swell heavy . .	Partly cloudy.
		20	..	..	SW	5	Rough, swell heavy . .	Rain, squall (occasional rainsqualls).

The wind directions and forces reported by *S. S. "Chilka"* and *"Magdapur"* (at 1 hour and 1·30 hours on the 23rd morning) showed that the depression was intensifying into a storm with a core of violent winds. By the same evening it developed into a storm centred near Lat. 18½°N, Long. 87°E, with a core of winds of strong gale force as reported by *S. S. "Chilka"* and *"Haresfield"* (17·30 hours). The storm continued moving in a northerly direction and was rapidly approaching the south Bengal coast. Great danger warnings were issued to Burdwan and Presidency Divisions and danger warnings to 24 Parganas and Contai districts at 23 hours on the 23rd.

By early morning of the 24th the storm had further developed and become one of severe intensity. Moving in a northerly direction it lay at that time in the neighbourhood of the Sandheads. The following table gives an idea of the depth of the storm over the sea :—

Date.	Hour.	SANDHEADS.				SAUGOR ISLAND.			
		P. Dep.	P. Change.	Wind.		P. Dep.	P. Change.	Wind.	
				Force.	Dir.			Force.	Dir.
23rd	17	—·220	—·210	5	E	—·140	—·180	7	NNE
	19	—·270	—·120	5	E	—·170	—·090	6	NNE
	23	—·390	—·240	5	ESE	—·300	—·220	9	NE
24th	2	—·480	—·390	6	ESE	—·330	—·300	7	NNE
	6	—·700	—·550	7	NNW	—·480	—·400	9	ENE
	8	—·660	—·510	8	WNW	—·550	—·460	9	N
	11	—·450	—·290	9	W	—·510	—·380	7	NNW
	14	—·330	—·140	8	W	—·390	—·260	7	NW
	17	—·270	—·040	6	WNW	—·470	—·130	6	WNW

It will be seen from the table above that the surface wind at Sandheads which was ESE (Force 6) at 2 hours became NNW (Force 7) at 6 hours showing thereby that the cyclone was probably curving northeastwards. Winds of gale force (Force 7-10) were reported by Saugor Island and by several of the light ships plying in the Hooghly River. The telegraphic communication with Saugor Island was interrupted twice and Saugor Island hoisted Signal XI. The extracts from the logs of the following light vessels show what terrific winds were experienced during the passage of the storm over the Hooghly river and southwest Bengal.

Weather Report of F. L. V. "Star", Lower Gasper Station, from 18 hours of 23rd May 1932 to 18 hours of 24th May 1932.

Date.	Hour.	Wind.		Remarks.
		Dir.	Force.	
23rd	18	ENE	3	Moderate sea and swell.
	20	E	8—9	Unsettled with heavy sea and swell.
	22	E	8—9	Ship labouring heavily.
	24	E	8—9	Ditto.

Weather Report of F. L. V. "Star", Lower Gasper Station from 18 hours of 23rd May 1932 to 18 hours of 24th May, 1932—contd.

Date.	Hour.	Wind.		Remarks.
		Dir.	Force.	
24th	2	SW	9—10	Ship labouring heavily.
	4	SW	9—10	Ditto.
	6	SW	9—10	Ditto.
	7	ENE	9—10	Ditto.
	8	ENE	9—10	Ditto.
	9	N	9—10	Ditto.
	10	N	9—10	Ditto.
	11	N	9—10	Ditto.
	12	N	9—10	Ditto.
	14	NW	9—10	Ditto.
	16	NW	9—10	Ditto.
	18	NW	6	Ditto.

Hourly report of T. L. V. "Luna", Intermediate station, from 2 hours to 20 hours of 24th May.

Date.	Hour.	Wind. Dir.	Wind. Force.	Remarks.
24th . .	2	E	5	
	3	E	7	
	4	ENE	7	
	5	E	6	Veered away coir hawser.
	6	ENE	7	
	7	ENE	7	
	8	ENE	8	
	9	NW	10	
	10	NW/W	12	From 9/30 to 10/30 wind blowing with hurricane force with very heavy seas, waves breaking over the vessel frequently, crew standing by watching hawser and hatcher.
	11	WNW	10	
	12	WNW	10	
	13	NW/W	10	
	14	NW	10	
	15	NW	9	
	16	NW	9	
	18	NW	8	
	20	NW	6	

Weather report of Saugor Light House, 23rd and 24th May 1932.

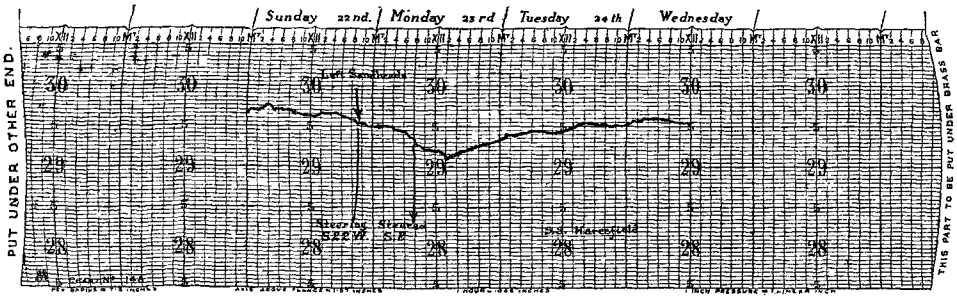
Date.	Hour.	Bar.	Wind. Dir.	Wind. Force.	Wind. Velocity. m. p. h.	Rain.
23rd	23	29·496	NE	9	38	
24th	2	·426	NNE	7	30	
	6	·300	NNE	9	34	
	7-38	·272	N	9	30	
	11-00	·306	NNW	7	43	
	14-00	29·346	NW	7	28	23rd-24th, 7·38″ —7·98″.
	17-00	·444	WNW	6	28	24th-25th, 3·56″.
	19-00	·490	WNW	5	25	
	23-00	·596	W	5	20	

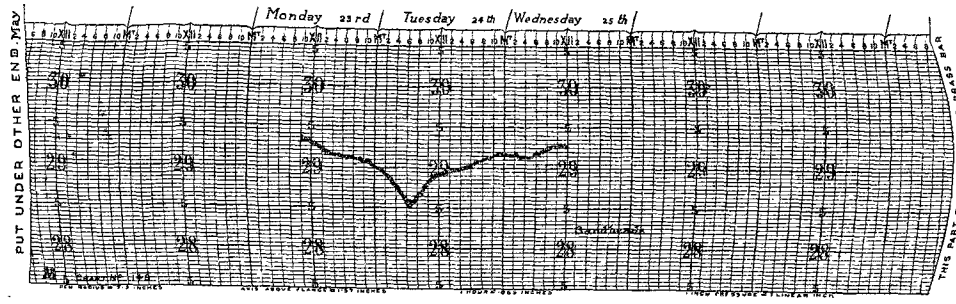
Hourly report of F. L. V. "Fame", Pilots Ridge Station, from 17 hours of 23rd May 1932 to 18 hours of 24th May 1932.

Date.	Hour.	Wind. Dir.	Wind. Force.	Remarks.
23rd . .	17	ENE	5—6	
	18	ENE	5—6	*Sun set.*—Weather very threatening looking, with heavy rainsqualls, big swells and sea.
	19	E	5—6	
	20	ESE	5—6	*20·00 hours.*—Weather same, with slightly bigger swell.
	21	E	6—7	*Midnight.*—Weather unsettled overcast with heavy rainsqualls, rough sea and big swells. Crew on watch and watch.
	22	SE	6—7	
	23	SE	6—8	All station duties strictly carried out.
	24	ESE	6	
24th . .	1	ESE	6	*A. M.*—Weather about the same vessel pulling heavily on Devils claw. Rolling pitching and lurching about. Glasses dropping rapidly.
	2	E	7—8	
	3	E	7—8	
	4	E	7—8	
	5	NNE	9—10	
	6	NNE	9—10	*6 hours.*—Heavy squalls, wind force 9/10, Crew sky sights and companion.
	7	N	12	
	8	N	12	*8 hours.*—Weather of cyclonic nature with boiling seas wind force 10/12.
	9	NW	10	
	10	NNW	10	
	11	NNW	10	
	12	NNW	8	*Noon to 16 hours.*—Wind force 8, with numerous short squalls, wind force 12 weather moderating somewhat.
	13	NW	10	
	14	NW	12	
	15	NW	8	*16½ hours.*—Squally with mountainous seas still running.
	16	NW	8	*18 hours.*—Vivid lightning all round Horizon.
	18	NW	5·6	*Midnight.*—Weather unsettled with thunder and lightning fresh northwesterly breeze, moderate swell and sea.

On 6 hours chart of the 24th, great danger warnings were issued to Dacca and Chittagong divisions in addition to Burdwan and Presidency because of the tendency of the storm to move northeastwards.

The barogram of *S. S. "Haresfield"* (received by courtesy of Capt. Horner) which was on its way to Calcutta, is reproduced below and shows that the pressure began to fall rapidly after the boat left the Sandheads. The barogram at the Sandheads is also reproduced below :—





Saugor Island reported at 6 hours on the 24th " Bar falling rapidly, weather stormy, squalls increasing velocity 34 m.p. h." A copy of the Sandheads message on the 24th morning ran as follows :—" Barometer reading at 06-00, 28·935, present weather wind WNW, force 10, high confused sea and swell, driving rain, barometer 29·102 at 09-00 I. S. T.

After the morning of the 24th the cyclone took a northeasterly course and crossed coast near Saugor Island by midday. It continued to move in the same direction, and passing about 50 miles east of Calcutta at about 14 hours, it began to weaken. On the 25th afternoon it lay near Khulna and the next morning it had weakened into a deep depression lying over east Bengal near Mymensingh. Thereafter it rapidly filled up during the next 24 hours and became unimportant.

The storm was responsible for widespread and locally heavy rain along and near its track (Orissa, Bengal and Assam) ; some of the notable falls of 5″ and above are given in the table below.

Rainfall of 5″ and above on 22nd-26th (inclusive) May 1932.

BENGAL.

District.	Stations.	22nd.	23rd.	24th.	25th.	26th.
		″	″	″	″	″
24 Parganas .	Gobasa . .	6	7	..	..	..
	Saugor Island (Observatory).	..	..	8	..	..
	Canning Town	..	..	7	..	..
	Alipore (Observatory).	..	..	6	..	..
	Dum Dum .	..	5	..	..	..
	Basirhat . .	..	..	6	..	..
Nadia . .	Krishnagar (Observatory).	..	..	5	5	..
Murshidabad .	Akriganj . .	..	..	..	8	..

Rainfall of 5" and above on 22nd-26th (inclusive) May 1932—contd.

BENGAL—*contd.*

District.	Seations.	22nd.	23rd.	24th.	25th.	26th.
		"	"	"	"	"
Jessore . .	Narail . .	..	..	5	..	..
	Jessore (Observatory).	..	..	5	..	..
	Bongaon . .	..	..	6	..	..
Khulna . .	Satkhira (Observatory).	..	..	6	..	..
	Khulna (Observatory).	..	..	6	..	..
	Rampal . .	..	..	6	..	..
	Kalaroa . .	..	..	5	..	..
	Mollahat . .	..	..	6	..	..
	Nakipur . .	..	5	..	..	..
	Dumuria . .	..	7	..	..	..
Midnapore . .	Contai . .	..	6	..	..	..
	Pachet . .	..	..	6	..	
	Ramnagar .	..	7	..	..	..
	Jenka (Khajri) .	..	..	5	..	..
	Nandigram .	..	6	..	..	..
Hoogly . .	Serampore .	..	..	6	..	..
	Hoogly . .	..	..	6	..	..
	Chanditala .	..	..	5	..	..
Howrah . .	Amta . .	..	..	..	6	..
Hoogly . .	Tentulia . .	..	6	..	..	..
Midnapore . .	Kukrahati .	..	..	5	..	..
Bankura . .	Taldangra .	..	..	..	7	..
Dacca. . .	Manikganj .	..	..	5	..	..
	Munshiganj .	..	..	..	7	..
	Nawabganj .	..	..	..	5	..
Mymensingh .	Mymensingh (Observatory).	..	..	..	7	..
	Netrokona .	..	..	..	5	..
Faridpur . .	Palong . .	..	..	5	..	..
Bakarganj . .	Patuakhali .	..	..	7	..	..
	Pirojpur . .	..	..	10	..	..

Rainfall of 5" and above on 22nd -26th (inclusive) May 1932—concld.

ASSAM.

District.	Stations.	22nd.	23rd.	24th.	25th.	26th.
		"	"	"	"	"
Shillong . .	Shillong . .	..	..	..	10	..
	Cherrapunji .	..	..	..	18	..
	BIHAR AND ORISSA.					
Purnea . .	Pakur . .	..	..	..	5	..
Santal Parganas .	Kendrapara .	..	5	..	..	..

It is reported that the heavy rain and strong winds associated with the storm caused widespread damage to property in south and east Bengal, particularly in the districts near the Meghna estuary. At Noakhali the river became furious and several houses and buildings were toppled down by the huge breakers dashing against the coast. Much damage to property was also reported from districts of Comilla, Dacca, Mymensingh and Khulna where several houses collapsed and boats capsized. No heavy casualty is, however, reported from anywhere perhaps due to timely warnings issued by this department.

3. *Severe cyclonic storm of small extent of 24-25th May 1932.*—After the depression of 20th-22nd May had become unimportant, a well-marked trough of low pressure lay off the Malabar Konkan coast on the 23rd morning; strong monsoon prevailed in the southeast Arabian Sea, where pressure had again begun falling. Trivandrum, Minicoy and Amini Devi had 3" of rain each on the 23rd. On the 24th morning, pressure was observed to have undergone a rapid fall on the Malabar coast, the fall being 0·15" at Mangalore since the previous evening. The wind directions and force recorded at Amini Devi (NW-6) and by *S. S.* "*Warora*" off the coast near Lat. 11½°N and Long. 75½°E (S-8) and *S. S.* "*Alipore*" off Mangalore near Lat. 13°N and Long. 74½°E (SE-4) at 8 hours on the 24th, indicated that a cyclonic circulation had set up and a depression formed with centre near Lat. 11°N and Long. 74½°E. The barometric depth at the centre at that time was at least 0·3" so far as can be judged from ships as well as coast observations.

During the course of that day, the depression seems to have intensified into a storm which was later in the night of severe intensity as indicated by the logs of *S. S.* "*Jalaputra*" at anchor at Calicut, *S. S.* "*Conte Rosso*" bound for Bombay from Colombo and of *S. S.* "*Celebes Maru*" bound for Singapore from Bombay, extracts from which are given below :—

S. S. "*Jalaputra*" *at anchor at Calicut.*

Day.	Hour.	Barometer.	Wind. Dir.	Wind. Force.	Sea.	Swell.	Weather Remarks.
		"					
24th May . . .	Noon	29·63	WSW	3-4	Rough	Moderate swell short .	Squally, threatening appearance of the weather.
	4 P.M.	29·44	SSE	6	Very Rough	Moderate swell average length.	Very squally. Squalls of wind and rain.

S. S. "Jalaputra" at anchor at Calicut—contd.

Day.	Hour.	Barometer.	Wind. Dir.	Wind. Force.	Sea.	Swell.	Weather Remarks.
24th May—*contd.*	8 P.M.	29·44	S/E	8	Very Rough	Moderate swell average length.	Very squally. Heavy squalls of wind and rain.
	9 P.M.	29·40	NNE	10	..	..	Terrific squalls and continuous rain. No visibility.
	10 P.M.	29·40	N	10-12	..	..	
	11 P.M.	29·40	NW/N	10-12	..	..	
	Midnight	29·42	NNW	12	High	Moderate swell average length.	
25th May . . .	1 A.M.	29·44	N	12	Do.	..	Terrific squalls.
	2 A.M.	29·52	NW	12	Very High	..	
	3 A.M.	29·55	W	10	Do.	..	
	4 A.M.	29·60	W	10	Do.	Moderate swell long .	Gusts of wind not so heavy. Continuous rain.
	5 A.M.	29·64	W/S	9	Do.	..	
	6 A.M.	29·67	WNW	9	Do.	..	
	7 A.M.	29·72	WNW	8	High	..	
	8 A.M.	29·72	WNW	7	Do.	Moderate swell long.	Weather improving.

S. S. "Conte Rosso" from Colombo to Bombay.

Date	Hour.	Position. Lat. N.	Position. Long. E.	Wind. Dir.	Wind. Force.	Sea.	Swell.	Weather Remarks.
		° ′	° ′					
24th May . . .	17½	8 27	76 51	WSW	4	Very rough	..	Rain.
	21½	9 16	76 14	WSW	6	Do.	Moderate, short .	Generally cloudy. Squalls.
25th May . . .	1½	10 17	75 47	WSW	6	Do.	Moderate, average length.	Hail. Generally cloudy. Squalls. Weather assuming the character of cyclonic depression.
	5½	17 11	75 16	W	6	Do.	Moderate, long. .	Wet air without rain falling.
	6½	..	..	W	8	High	..	Ugly threatening sky. Thunderstorm rain.
	7½	..	..	W	9	Do.	..	
	9½	12 00	74 40	WNW	8	Do.	Moderate, long .	Squalls. Rain. Unusual visibility.
	13½	13 02	74 17	WNW	4	Moderate	Do. .	Generally cloudy.

S. S. "Celebes Maru" from Bombay to Singapore.

Date.	Hour.	Position. Lat. N.	Position. Long. E.	Wind. Dir.	Wind. Force.	Sea.	Swell.	Weather Remarks.
		° ′	° ′					
24th May . . .	Noon	9 56	75 47	WSW	6	Moderate	..	Generally cloudy. Squalls. Continuous rain.
	4 P.M.	..	..	SW	8	High	..	Generally cloudy. Rain.
	8 P.M.	..	..	WSW	10	Do.	..	Generally cloudy. Heavy rain.
	Midnight	..	..	W	10	Do.	..	Do

S. S. "Celebes Maru" from Bombay to Singapore—contd.

Date.	Hour.	Position.		Wind.		Sea.	Swell.	Weather Remarks.
		Lat. N.	Long. E.	Dir.	Force.			
		° ′	° ′					
25th May . . .	1 A.M.	..	..	W	10	..	..	
	2 A.M.	..	..	W	11	..	..	
	3 A.M.	..	..	W	10	..	..	
	4 A.M.	..	..	WNW	8	High	..	Overcast sky.
	8 A.M.	11 01	75 01	WNW	8	Do.	..	Overcast sky. Continuous rain.

S. S. "Conte Rosso" experienced strong W-ly to WSW-ly gale with heavy rain, thunderstorm and very rough sea for about 4 hours after midnight of 24th. *S. S. "Celebes Maru"* had also experienced W-ly to WSW-ly winds and high sea between 8 P.M. on the 24th and 4 A.M. on the 25th. The series of valuable observations taken by the captain of *S. S. "Jalaputra"* indicate that the cyclone had an inner area of hurricane winds; the diameter of the inner hurricane region appears to be roughly about 50 miles so that the storm was one of small extent. The lowest barometer reading was recorded between 9 and 11 P.M. of the 24th and this can be taken to be the time of the passage of the centre of the cyclonic vortex inland. The shifts in wind direction show that the centre of the storm passed inland to the south of Calicut. Calicut recorded 11″ of rain on the 24th. The 8 hours chart of the 25th showed that by that time the cyclonic circulation had broken up completely although negative pressure departure was still persisting over Mysore. Apparently therefore the storm broke up rapidly after passing inland. The strong gales experienced in the early morning of the 25th were due to strong monsoon which was prevailing to the southeast of the storm. The observer at Calicut could not take observations due to very bad weather, but from the general report supplied by him it appears that the centre of the cyclone had apparently passed inland shortly before midnight. The changes in pressure experienced by *S. S. "Jalaputra"* indicate that the depth of the cyclone at the time of passage of its centre inland was not less than 0·4″. It is not possible to say whether the cyclone had a calm centre or not.

The following report of the observer at Mangalore is of interest:—

"*24th May 1932.*—Between 1 A.M. to 5 A.M. there was no rain but wind was strong followed by squally weather. Sky completely overcast with Nimbus. Slight rain between 5 to 5-30 A.M. Between 5-30 to 11 A.M. the nature of the weather seemed to be improving as the wind subsided and sky began to clear, but after 11 A.M. dark clouds prevailed all over and wind changed from east, and strong breeze began to blow from northwest followed by occasional light squalls. Weather became worse with the progress of the day. Occasional flashes of lightning could be seen but thunder could not be heard. After 9 P.M. moderate to fresh gale began to blow followed with slight rain at intervals.

25th May 1932.—After 1-45 A.M. weather became extremely rough, wind and rain increased in force and between 2-40 to 3-50 A.M. the wind increased to storm force. Between 3-50 to 4 A.M. there was lull in the weather during which time there was no rain and wind. Sky remained overcast. Immediately after the lull strong gale followed by heavy rain began to blow from northwest and continued till 2 P.M. Occasional severe thunderstorm heard between 10 A.M. to 11 A.M. At 2 P.M. wind and rain stopped suddenly but day remained gloomy and the sky overcast throughout".

The strong northwesterly gales at Mangalore during the 24th-25th night is probably typical of the rainsqualls experienced at the time of the first burst of the southwest monsoon on this coast and associated with vigorous monsoon which prevailed, as already mentioned, to the southeast of the storm. The 10 minutes lull mentioned by the observer probably marks the interval between two periods of heavy rainsqualls. Strong gales continued to blow along and near the Malabar coast for almost the whole day on the 25th. Strong winds and rain near Calicut did considerable damage to railways and telegraph lines and to property in that area; newspapers report that about sixteen deaths were caused.

4. *Storm of 18th-21st September 1932.*—With a marked strengthening of the monsoon in the south Bay of Bengal, conditions became unsettled off the Orissa-Circars coast in the North Bay on the 13th. These unsettled conditions persisted till the 17th when pressure began to fall in the north Bay. By the morning of the 18th, the unsettled conditions concentrated into a shallow depression with centre within a degree of Lat. 19°N, Long. 89°E. In the afternoon the upper air observations showed that cyclonic circulation extended in the upper air at least up to 2·5 Km.

Moving slowly in a northwesterly direction the depression intensified further and was centred on the morning of the 19th near Lat. 19½°N, Long. 88½°E as will be seen from ships' observations noted below:—

Date.	Steamer.	Hour.	Position.				Wind.		Sea.	Weather Remarks.
			Lat. N.		Long. E.		Dir.	Force.		
			°	′	°	′				
19th September .	"Holywell" . .	8	18	5	88	2	WNW	2	Moderate sea. Low swell.	Rain. Squall.
	"Halimara" .	6½	20	3	88	8	E	3	Smooth sea. Swell moderate.	Rain.
	"Nalgora" . .	6½	18	1	86	9	NW	4	Slight sea. Swell moderate.	
	"Cranfield" . .	6½	18	1	86	6	NNW	5	Moderate sea.	
	"Edavana" . .	9½	17	5	88	7	SW	4		
	"Chilka" . .	6½	17	7	89	0	SW	3	Sea slight. Swell moderate.	Heavy rain.
		8½	17	3	89	5	SSW	4	..	Continuous rain-squall.
	"Ellenga" . .	6½	19	0	90	5	S	5	Moderate sea.	
	"Karagola" . .	6½	18	5	91	1	SSW	3	Sea slight. Swell low.	
	"Suisang" . .	6½	20	1	88	5	E	3	Sea slight. Moderate swell.	Rain.
	"Umrona" . .	8	14	1	87	5	SW	5	..	

By the afternoon the depression had become fairly deep and was still intensifying. The following ships, an extract from whose logs is given below, reported high winds and rainsqualls in the afternoon.

Date.	Steamer.	Hour.	Position.				Wind.		Sea.	Weather Remarks.
			Lat. N.		Long. E.		Dir.	Force.		
			°	′	°	′				
19th September .	"Edavana" . .	15½	18	1	87	6	NNW	6	Moderate sea. Heavy swell.	Continuous drizzle.
		17½	18	0	87	3	NW	7	Sea Rough. Swell heavy.	Continuous heavy rain.
	"Cranfield" . .	15½	19	0	87	0	NNW	7	Sea rough. Swell moderate.	Rain.
		17½	19	5	87	5	NNW	7	Sea rough. Swell moderate.	Rain. Squall.
	"Nalgora" . .	15½	19	1	87	4	N	6	Sea rough.	Rain. Squall.
		17	19	2	87	5	N	5	Sea rough. Swell moderate.	Rain.

The above table shows that the depression was intensifying rapidly and was of small extent.

By the morning of the 20th, it intensified into a moderate storm, centred at 8 hours about 75 miles south of the Sandheads. At this stage the pressure departure near its centre was at least ·035″.

The storm then took a northnorthwesterly course intensifying further at the same time. Almost all the stations along south Bengal and Orissa coast reported squalls and rain on the afternoon of the 20th. The Port Officer, Chandbali reported: "This depression was the severest I have noticed since my being at Chandbali". On the afternoon of the 20th a severe squall from northeast passed over that port with velocity of gusts reaching gale force. The wind at 1 Km. over Calcutta was of force 10 from an easterly direction on the same afternoon.

The storm was centred about 30 miles south of Saugor Island at midnight of the 20th. Early next morning it crossed coast near Saugor Island and began to weaken. It travelled across the country as a deep depression in a

northwesterly direction and lay over the west Central Provinces near Saugor on the 23rd. In the course of the next 24 hours the depression curved northwards and moved to the United Provinces; it dissipated near the Punjab Kumaon hills by the 26th (the intermediate positions are given in the map showing the track of the depression.)

The storm caused locally heavy rain in Orissa and Chota Nagpur on the 21st, in and around the northern division of the Central Provinces on the 22nd, in the west Central Provinces and in the catchments of the Jumna and the Ganges on the 24th and 25th. Some of the noteworthy falls of 5″ and above are given in the following table :—

Station.	Amount of rainfall.	Date.
	″	
Bhopal	5	23rd.
Pachmarhi	14	Do.
Bhopal	7	24th
Mainpuri	6	Do.
Roorkee	7	25th

5. *Deep Depression of 7th-13th June 1932.*—With the strengthening of the Bay monsoon off Tenasserim, an appreciable fall of pressure occurred over north Andaman sea and Pegu on the morning of the 4th. At the same time markedly unsettled conditions appeared over the region extending from north Andaman sea to the east Central Bay as seen from the reports of the following ships :—

TABLE I.

Steamer.	Hour.	Position.		Wind.		Remarks.
		Lat. N.	Long. E.	Dir.	Force.	
		° ′	° ′			
"Chakla" . .	7	16 30	93 30	NW	7	Squally ; sea rough.
"Kutsang" . .	10½	16 0	93 0	WSW	5	Rain.

The fall in pressure continued along the Arakan coast and by the 6th morning the unsettled conditions were moving in a northwesterly direction and had become more pronounced. This is supported by the following observations from ships.

TABLE II.

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
			° ′	° ′			
5th June	"Yuensang" .	8	19 13	89 22	WSW	4	Overcast, Squally, Dr. or fine rain.
Do.		6½	19 0	89 30	WSW	4	Squally weather (shower, Squall, hail).
Do.	"Takliwa" .	5½	19 6	90 12	WSW	3	Squally weather (m. c.).
		11½	19 36	89 54	WNW	4	Do.

By the 6th afternoon the unsettled conditions intensified into a shallow depression with central region near Lat. 20°N, Long. 90°E. During the course of next 36 hours it developed into a well-marked depression centred near Lat. 20½°N, Long. 89½°E. The following observations of ships and coastal stations indicate the conditions on the 8th morning.

TABLE III.

Steamer or Station.	Hour.	Position.		Wind.		Remarks.
		Lat. N.	Long. E.	Dir.	Force.	
		° ′	° ′			
Sandheads . .	8	..	..	N	3	General bad weather, Rain. Wind increasing with frequent light squalls.
"Nuddea" . .	5½	20 12	88 48	W	6	Signs that tropical storm has formed (Rain).
"Cranfield" .	5½	20 42	88 00	WSW	8	Overcast. (Rain).
"Angora" . .	6½	20 06	89 06	SW	4	Continuous heavy rain (Dr.).
"Chantala" .	7	21 30	91 30	SE	7	Suspicious.
Barisal . .	8	..	..	ESE	2	Haze. (Rain).

The upper air observations suggest that the cyclonic circulation over the Bay had extended up to 4 km. height on the 8th morning.

Moving very slowly in a northwesterly direction the depression became fairly deep by the 9th morning (the pressure departure at the centre being of the order of ¼″). At that time it lay centred about 100 miles southeast of Calcutta. It kept moving very slowly in the same direction and on the 10th morning its centre was about 50 miles southeast of Calcutta. The depression persisted over the head of the Bay till the 12th without showing any marked signs of weakening or movement. Thereafter it merged into the seasonal trough of low pressure over the Gangetic plain and became unimportant.

The depression was responsible for an extension of the Bay monsoon into east Bengal and Assam on the 8th and for very heavy rain along the Chittagong Arakan coast on the 10th, 11th and 12th. Some of the noteworthy falls of 5″ and above are given below :—

TABLE IV.

Station.	10th.	11th.	12th.	13th.
	″	″	″	″
Nakipur . . .	6	..	..	..
Rampal . . .	..	..	5	..
Morrelganj . . .	..	..	..	6
Hoogly . . .	..	7	..	..
Patuakhali . . .	6	..	..	..
Cox's Bazar (observatory)	..	..	5	5

TABLE IV—*contd.*

Station.	10th.	11th.	12th.	13th.
	"	"	"	"
Chittagong (observatory)	..	..	..	10
Kutubdia	..	..	6	..
Satkania	..	..	..	8
Harishpur	..	..	..	7
Hatjya	..	..	..	6
Rangmati	..	..	..	8
Bandarban	..	..	..	7
Barkal	..	..	..	6
Mahalchari	..	..	..	6
Lama	..	..	..	8
Mainmukh	..	..	..	7
Kaptai	..	..	..	12
Nakhyongchhari	..	..	6	5
Menoka	..	..	..	6
Dullabcheria	..	..	..	8
Samanbagh	..	..	..	12
Aijal	..	..	..	5
Sialauk	..	..	..	7
Champhai	..	..	..	7
Lungleh	..	..	..	14
Sherkawn	..	..	..	12
Demagiri	..	..	11	..
Akyab (observatory)	..	11	5	..
Maungdaw	..	6	5	..
Buthidaung	..	6	..	..

TABLE IV—*concld.*

Station.	10th.	11th.	12th.	13th.
	"	"	"	"
Kyauktaw	..	..	8	7
Ponnagyun	6	5	..	..
Myohaung	..	..	7	..
Pauktaw	7	..	..	..

6. *Movement of a low pressure wave from the southeast Arabian Sea to Baluchistan, along the west coast of the Peninsula and through Kathiawar and lower Sind, between the 2nd and 13th July 1932.*—The Arabian Sea monsoon, which had weakened over its field of activity at the end of June, began to strengthen off Malabar in the beginning of July, both Minicoy and Amini Devi having 2" of rain each on the 1st. On the 2nd morning, considerable fall in pressure was noticeable in the neighbourhood of the Laccadives and in the south of the Peninsula; and a well-marked low pressure area appeared off Malabar on the 3rd morning when moderate to strong W to SW winds with squally weather and rough seas were reported by ships from the southeast Arabian Sea. By this time, the monsoon had also extended into the Peninsula. Upper winds at Mangalore, which were from NW (force 2—4) up to 2 Km. on the 2nd morning, had backed and were blowing from a southerly direction up to that height on the 3rd afternoon. The low pressure area moved northwards, causing widespread rain in the west of the Peninsula with locally heavy falls along the west coast; on the 6th morning, it lay off the Konkan-Kathiawar coast, where it remained practically stationary till the 8th. During this period, an extension of strong monsoon also occurred in Gujarat and the centre of the country. The low pressure area had somewhat strengthened, and lay to the west of Kathiawar on the 10th morning when SW-ly winds reaching force 10 accompanied with occasional heavy rainsqualls were reported by ships off the Konkan-Kanara coast. During that day, a rapid fall of pressure occurred over north Kathiawar and Cutch so that on the 11th morning, the low pressure area moved over there, its central region having developed by then a closed circulation of winds round it. The low pressure area lay over Cutch on the 12th morning and in the course of the next 24 hours, it moved further northwards and merged in the seasonal low over northwest India after causing locally very heavy thunderstorm rain in Sind; Karachi had 6" of rain on the 12th. The movement of this low pressure area into northwest India was also responsible for an extension of monsoon there between the 6th and 9th, locally heavy rain occurring in Gujarat between the 6th and 15th and in Sind on the 12th.

7. *Depression of 9th-11th July 1933.*—On the 6th morning there appeared an area of negative pressure departures extending from north Andaman Sea to east Central Bay. During the next 24 hours pressure fell further in the central Bay and the area of negative departures became more accentuated. Conditions became markedly unsettled off the Orissa Ganjam coast by the morning of the 8th July when a shallow trough of low pressure extended from west Central Bay to the Orissa Circars coast.

Pressure continued to fall over the northwest of the Bay by the 9th morning; a depression had formed off the Orissa Ganjam coast with centre near Lat. 18½°N, Long. 87°E. Upper air observations suggest that on that date the cyclonic circulation extended up to about 4 Km. above sea level. During the course of the day the depression remained practically stationary but slowly intensified as will be seen from the extracts from the logs of the following ships :—

Date.	Steamer.	Hour.	Position.		Wind.		Sea.	Swell.	Weather Remarks.
			Lat. N.	Long. E.	Dir.	Force.			
			° ′	° ′					
9th July . .	"Hatimaru" .	8	14 7	81 8	SW	5	Moderate . .	Moderate (SSW).	
		20	..	..	SW/W	6	Rough . . .	Heavy (SW).	
10th . .	..	1½	..	..	WSW	6	Moderate . .	Low.	
		6½	17 1	84 3	WSW	7	Rough . . .	Heavy.	
		8	16 5	84 3	SW/W	6	Moderate . .	Moderate (SW).	
		16½	17 7	85 3	WSW	7	Very rough . .	Heavy.	
		21½	18 3	85 9	SW	6	Rough . . .	Heavy.	
11th . .	..	2½	18 7	86 2	WSW	6	Rough . . .	Heavy.	
		9½	19 6	87 1	WSW	5	Rough . . .	Heavy.	
9th . . .	"Binfield" .	18	16 6	85 5	WSW	7	Rough . . .	Moderate.	
		19	17 5	85 5	WSW	7	Moderate . .	Heavy.	
10th . .	..	7	18 5	87 5	SW	6 or 7	Rough . . .	Conspicuous . .	Squally.
		19	20 5	89 5	SW	5	Moderate . .	Heavy . . .	Squally.

By the early morning of the 10th, the depression began to move slowly northwestwards. It was centred at 11 hours about 70 miles east of Puri. It then began to weaken while moving in the same direction, and by the afternoon of the 11th its centre passed inland between Balasore and Saugor Island. The depression lay over Orissa and the adjoining districts of the east Central Provinces on the 13th. It moved to the west Central Provinces in the course of the next 2 days, and weakening thereafter filled up near Jhansi (west U. P.) by the 17th morning.

The depression caused a strengthening of the monsoon in Orissa, the Central Provinces and west Central India between the 7th and 17th and gave locally heavy rain in south Bengal, Orissa and the Central Provinces between 11th and 13th. It is reported that a country boat capsized in the river Dholeshwari near village Elasin on the 13th night during a sudden squall.

Some noteworthy falls of 5″ and above are given below :—

Station.	July 1932.	
	11th	12th
	″	″
Bihar and Orissa.		
Champua	5	..
Rairangpur	..	7
Bengal.		
Morrelganj	9	..

8. *Deep depression of 18th-21st July 1932.*—With the passage of a low pressure wave from the east across Burma into the Bay on the 16th afternoon, markedly unsettled conditions appeared at the head of the Bay. The following observations from ships and coastal stations on the 17th morning indicated that a cyclonic circulation was setting up over the north Bay with centre within a degree of Lat. 20°N, Long. 90°E.

Date.	Steamer.	Hour.	Position.		Wind.		Sea.	Weather Remarks.
			Lat. N.	Long. E.	Dir.	Force.		
			° ′	° ′				
17th July . . .	"Penang Maru" .	8	19 6	90 0	WSW	5	Sea rough . . .	Rain.
	"Suisang" . .	6½	19 36	89 12	WNW	4	Sea slight, moderate swell	Slight or moderate drizzle and rain.

Date.	Steamer or Station.	Hour.	Position.		Wind.		Sea.	Weather Remarks.
			Lat. N.	Long. E.	Dir.	Force.		
			° ′	° ′				
	"Badarpur" .	8	19 30	89 50	SW	3	Sea slight, no swell .	Rain.
	"Burma Maru" .	8	18 17	91 33	SW	6	Sea rough . . .	Rain.
	"Narbada" . .	6½	16 3	91 9	WSW	9	Sea very rough, swell heavy.	Squally.
		8	16 20	91 48	WSW	8	Sea rough . . .	Squally.
	"James" . .	6½	20 30	88 42	NE	3	Sea slight, swell low .	Cloudy, rain.
	Sandheads . .	8	..	..	NE	3	Sea slight, swell low.	
	"Chilka" . .	7	20 30	86 30	NW	1, 2, or 3	Sea smooth or slight, swell moderate.	
		8	20 02	86 46	NW	3	Sea slight . . .	Rain.
	Chandbali . .	8	..	..	NW	1	....	

The upper winds suggested that the cyclonic circulation extended to a height of 2·5 Km. Pressure continued to fall and by the 18th morning the unsettled conditions developed into a shallow depression centred near Lat. 19½°N, Long. 89°E. The monsoon was also strengthening off the Burma coast at the same time, as will be seen from the following observations from ships:—

Date.	Steamer or Station.	Hour.	Position.		Wind.		Sea.	Weather Remarks.
			Lat. N.	Long. E.	Dir.	Force.		
			° ′	° ′				
18th July . . .	"Pasha" . .	8	17 0	84 0	W	8	Sea high . . .	Squally.
	"Cocanada" .	7	16 30	90 30	WSW	6 or 7	Sea rough, swell conspicuous.	Squally.
		8	16 10	90 59	WSW	10	Sea very rough, swell heavy, and direction WSW.	Rain.
	"Suisang" . .	6½	16 12	91 42	WSW	8	Sea very rough, swell heavy.	Squally weather, shower.
	"Daleroy" . .	8	16 13	91 54	W	6 or 7	Sea high, swell heavy, and direction W.	Cloudy.
	"Cranfield" . .	6½	16 30	93 12	WSW	7	Sea rough, swell heavy .	Rain.
		8½	16 30	93 12	WSW	7	Sea rough, swell heavy .	Squally, rain.
	Diamond Island .	8	..	..	WSW	7	Sea rough, swell moderate.	
	"Quiloa" . .	7	15 30	82 30	W	6 or 7	Sea rough, swell inconspicuous.	

By the evening of the 18th the depression deepened and began to move northwestwards. It lay centred near Lat. 20°N, Long. 88°E (to the south of the Sandheads) on the 19th morning. It persisted there for a day without intensifying. It then took up a more northerly course and lay near the Sandheads on 20th afternoon. Moving further in a northwesterly direction it lay between Chandbali and Saugor Island on the early morning of the 21st. By midday it crossed the Orissa coast and began to weaken. It lay near Pendra on the 22nd, and moving still northwestwards it was centred near Sutna next morning and became unimportant during the course of that day.

This depression was responsible for locally heavy rain from southwest Bengal and Orissa to Gujarat. Some of the noteworthy falls of 5″ and above in Bihar and Orissa are given below :—

Station.	July 1932.	
	20th.	21st.
Bihar and Orissa.	″	″
Binka	4·85	..
Bhowanipatna	..	7
Sonepur	..	7

9. Depression of 24th-25th July 1932.—A low pressure wave from the east, presumably associated with a typhoon in the China seas, passed across Burma and entered the Bay of Bengal on the 23rd morning when unsettled conditions appeared in the North Bay. In the afternoon pressure was falling rapidly over Burma, and the reports from the following ships were found to be significant :—

Date.	Steamer.	Hour.	Position.		Wind.		Sea.	Swell.	Weather Remarks.
			Lat. N.	Long. E.	Dir.	Force.			
			° ′	° ′					
23rd July	"Ellenga"	6½	20 0	89 2	SSW	6	Rough	Moderate	Squally, shower.
	"Aronda"	6½	18 5	90 9	ESE	4	Slight	Moderate	Shower.
	"Ellenga"	17½	18 7	90 5	W	7	Rough	Moderate	Drizzle rain.

The unsettled conditions intensified into a depression by the morning of the 24th with centre probably within a degree of Lat. 20°N, Long. 88°E. as will be seen from the following observations :—

Date.	Steamer or Station.	Hour.	Position.		Wind.		Sea.	Swell.	Weather Remarks.
			Lat. N.	Long. E.	Dir.	Force.			
			° ′	° ′					
24th July	"Arankola"	6½	18·8	90·9	SSW	6	Moderate	Moderate.	
	"Juna"	7	18·5	91·5	SW	7	Moderate	Moderate.	
	"Jalapalaka"	6½	20·0	87·0	WNW	3	Moderate	Moderate.	
		9½	19·8	85·8	WNW	5	Rough	Moderate.	
	Chandbali	..	..	..	NNW	2	....	....	Rain.
	Sandheads	..	..	..	E	3	Slight	Moderate	Shower.

These observations show also that the monsoon was vigorous to the south of the depression. The upper air data indicated that a cyclonic circulation extended at least to a height of about 3 Km. Moving rapidly northwestwards and intensifying at the same time the depression became fairly deep by the afternoon of the 24th. Early next morning it crossed the Orissa coast midway between Puri and Chandbali. At 8 hrs. on the 25th morning it lay over Orissa (north of Angul) where it filled up in the course of that day.

The depression caused heavy rain in southwest Bengal, Orissa, the Central Provinces, Central India and Gujarat. Some of the noteworthy falls of 5″ and above are given in the table below :—

Station.	July 1932.		
	24th.	25th.	26th.
Bihar and Orissa.	″	″	″
Binka	9	7	..
Kakatpur	6	..	..

Station.	July 1932.		
	24th.	25th.	26th.
	"	"	"
Sonepur	..	5	..
Angul	..	10	..
Bissipara	..	8	..
Tikarpora	..	8	..
Jarpora	..	5	..
Phiringia	..	5	..
Bolangir	..	6	..
Hindol	..	7	..
Band	..	6	..
Puri	..	6	..
Pipli	..	6	..
Bengal.			
Ramgarh	..	..	6

10. *Land Depression of 30th July to 1st August 1932.*—On the morning of the 27th pressure began to fall rapidly over Burma. During the westward passage of the low pressure wave weather became unsettled in the North Bay. The marked strengthening of southwesterly winds at the Sandheads and Saugor Island (force 6 and 8 respectively at 8 hrs.) on the morning of the 29th considered along with the upper winds suggested that conditions were favourable for the formation of a depression over west Bengal.

By the 30th morning a shallow depression had formed over west Bengal. It moved westwards, lay over Chota Nagpur the next day and filled up over the east United Provinces on the 1st August.

The depression caused locally heavy rain in southwest Bengal, Bihar and Orissa.

11. *Shallow Depression of 8th-9th August 1932.*—The seasonal trough of low pressure over the Gangetic plain extended well into the northwest of the Bay of Bengal after the 4th August. Between 5th and 6th pressure had fallen appreciably over Chota Nagpur. Reports of continuous heavy rain and rainsqualls from *S.S. Haresfield*, *S.S. Kuensang*, *S.S. Warora* and *S.S. Erinpura* on the 6th morning showed that the monsoon was strengthening in the North and Central Bay. No appreciable change in the weather situation was however noticeable during the next 24 hours, but by the morning of the 8th pressure fell rapidly in the extreme north of the Bay and markedly unsettled conditions developed to the south of the Sandheads. During the course of that day the unsettled conditions intensified into a shallow depression with centre probably near Lat. 20°N, Long. 88°E. The depression took a northwesterly course and passed inland and lay over Chota Nagpur on the 9th morning, after which it weakened and filled up.

12. *Depression of 2nd-3rd September 1932.*—With a strengthening of the monsoon in Malabar and the south Bay on the 31st August, markedly unsettled conditions appeared in the West Central Bay off the Ganjam-Circars coast on the morning of the 1st September, when pressure began to fall along the north Madras and Orissa-Ganjam coasts. The same morning it was also noticed that a cyclonic circulation had set up almost up to 3 km. height.

By the next morning a depression had formed in the Bay with its central region near latitude 19°, longitude 87°. This is confirmed by the following observations of ships and other coastal stations :—

Date.	Steamer or Station.	Hour.	Position.		Wind.		Sea.	Weather Remarks.
			Lat. N.	Long. E.	Dir.	Force.		
			°	°				
2nd Sept. . . .	"Nirvana" . .	8	17·2	86·8	WSW	5	Sea moderate. Swell moderate.	Rain.
	"Nurbada" . .	6½	18·0	86·8	WSW	4	Moderate sea. Moderate swell.	Rain.
	"Kumsang" .	6½	16·8	91·3	SW	3	Sea slight. Swell low.	
		8	19·2	89·3	SSE	4	Sea rough. Swell moderate.	
	"Ahita Maru" .	8	20·5	88·4	SSE	4	Moderate sea. Swell low.	
	Sandheads . .	8	..	..	E	2	Slight sea.	
	Puri . . .	8	..	..	NNE	3	Slight sea.	
	Gopalpur . .	8	..	..	NNW	4	Slight sea.	
	Chandbali . .	8	..	..	NE	1	....	

The following is an extract from the logs of *S. S. "Nirvana"* which happened to be in the central region during the initial stages of the depression :—

Date.	Hour.	Position.		Wind.		Sea.	Weather Remarks.
		Lat. N.	Long. E.	Dir.	Force.		
		°	°				
1st September	7½	14·2	85·2	WNW	4	Sea moderate. Swell moderate.	Rain with squall.
	8	14·3	85·1	W	4	Sea moderate. Swell moderate.	Rain with squall.
	15½	15·7	85·5	SW	4	Sea moderate. Swell moderate.	Continuous heavy rain.
	17½	15·9	85·9	W	4	Sea moderate. Swell low.	Rain (squall).
2nd September . . .	8	17·2	86·8	WSW	5	Sea moderate. Swell moderate.	Rain.
	9½	18·1	86·8	W	4	Sea moderate. Swell moderate.	Rain.
	15½	18·5	87·3	SW	4	Sea slight. Swell moderate.	Shower.
	17½	18·9	87·5	SSW	5	Sea slight. Swell moderate.	

During the course of the day the depression intensified without showing any signs of appreciable movement. It then took a northwesterly course and was centred about 80 miles southeast of Puri on the morning of the 3rd. The depression crossed the Orissa coast near Puri by the afternoon and moved across the country in a northwesterly direction to west Central India, being centred, on the 6th, near Guna. After a day it curved northeastwards to the United Provinces where it persisted as a shallow depression till the 12th.

The depression was responsible for strong monsoon in north and central India and caused locally heavy rain along and near its track.

Some of the noteworthy falls of 5″ and above are given in the table below :—

Station.	Amount of Rainfall.	Date.
	″	
Patna	8	2nd
Bombay	7	4th
Bhopal	5	5th
Indore	5	5th
Ambala	6	6th
Guna	7	7th
Ambala	8	7th
Jhansi	5	8th
Jhansi	5	9th

13. *Storm of 19th to 22nd October 1932.*—The 17 hours weather charts of the 18th October showed a marked fall of pressure over Pegu and Tenasserim and the indications of the approach of a low pressure wave from the east were clear. During the course of the night the wave of low pressure passed into the Andaman Sea causing moderate to heavy rain along the Tenasserim coast and the 8 hours observations of the 19th (see *Table I*) showed the appearance of a concentrated area of negative pressure departure over the Andaman Sea where a depression was in the process of formation with central region within a degree of Lat. 14°N and Long. 96½° E. The upper air charts of the 19th morning also indicated that a cyclonic circulation had been established up to a height of about 4 km.

The observations from Diamond Island and Table Island taken from the monthly meteorological registers (see *Table II*) show that a depression had probably formed during the day and moved towards the region between Table Island and Diamond Island.

By midnight of the 19th the wind attained gale force at Table Island and hurricane squalls were experienced there between 4 and 6-30 hours on the 20th morning. Diamond Island had intermittent moderate squalls accompanied by thunder-rain between 0 and 3 hours of the 20th morning, while the sea was very rough and the swell heavy and short. These observations indicate that the depression had intensified into a storm, probably of small extent, by midnight of the 19th. Two motor schooners were, according to newspaper reports, wrecked off Table Island at midnight of the 19th. The centre of the storm lay within half a degree of Latitude 14½°N, Longitude 93½°E at 8 hours on the 20th. The strength of upper winds at Rangoon on that morning was 7 B. F. up to 2 km. and 10 B. F. at 3 km. The storm

took a northwesterly curve and was centred at 17 hours near Latitude 15°N, Longitude 92°E.

Table III giving the log of *S. S.* "*Golconda*" bound for Adelaide, which left Sandheads early in the morning of the 19th and on her way passed through the field of the disturbance between 14 hours of the 20th and 10 hours of the 21st, is very interesting and throws light on the nature of the disturbance. It is clear from the variation of the barometer given in *Table III* that from midnight of the 19th onwards the ship was entering more and more into the field of the disturbance until she came very close to the centre. At 21 hours of the 20th she was about 100 miles to the west of the centre. Winds of force 8 or above were continuously experienced by the ship from 17 hours of the 20th to about 2 hours of the 21st while between 20 hours and 23 hours of the 20th the wind blew with force 10 B. F. At this stage the pressure departure at the centre of the storm was probably of the order of 0·35″. The following narrative of the disturbance by the Commander of *S. S.* "*Golconda*" will be read with interest:—

"Leaving the Sandheads bound for Adelaide at 3·35 A.M. on October 19th, 1932, fine weather with a N. E. wind, force 2, was encountered with slight sea and swell until noon of the 20th, the barometer reading being 29.65″, corrd. att. thermometer 83°. From noon onwards the wind began to freshen up, accompanied by heavy rain, sea becoming rough, and barometer falling.

Weather reports received placed me 250 miles N60°W of a depression centred in 15½°N, 93½°E.

At 1 P.M. course was altered to S26W true at 3 P.M. I obtained precipitation in slight and afterwards the weather suddenly changed for the worse and again at 5-20 P.M. altered to S45°W true. At 6 P.M. the wind backed to north from northeast increasing in force, and at 7 P.M. it backed still further to NW, force 10.

At 8 P.M. the wind had reached gale force with fierce squalls high rough seas and heavy northeasterly swell, with continuous rain, the barometer having now fallen to 29·21″ corrd. att. thermometer 81°. At 9 P.M. my barometer fell to 29·14″ corrd. and the wind suddenly backed to S. W. when it attained hurricane force. At 10 P.M. the barometer rose to 29·27″ for a short while and then fell again and at midnight it stood at 29·17″ att. thermometer 77°. Between 9 P.M. and 11 P.M. I experienced a wind of hurricane force which I estimated to be about 80 miles per hour, accompanied by heavy driving rain, thunder and lightning, and about 11 P.M. a very sharp heavy shower of large hailstones fell for about 5 minutes, and it became exceedingly cold which was noticeably felt. At 1 A.M. the wind again backed to SW by S and the barometer now began to rise from then onwards, and at 5 P.M. in the morning it registered 29·56″ corrd. wind SSW and decreasing force, that by noon of the 21st the weather had moderated considerably, my barometer having risen again to 29·75″ and experiencing a southerly wind of force 3 moderate sea and swell, and the weather improved rapidly.

During the height of the storm I never encountered any calm area or any cessation in wind force between 8 P.M. and 1 A.M.

The storm continued to move rapidly in a northwesterly direction. It was centred near Latitude 16°N, Longitude 89°E at 8 hours of the 21st and by 23 hours it was about 50 miles to the east of Calingapatam. The 23 hours observations from Calingapatam, Gopalpur and Puri (see *Table IV*) showed that the pressure departure at the centre was still of the order of 0·35″ and the wind force at a distance of 50 miles in front of the centre was 8 to 9 B. F. Moving rapidly northwesterwards the storm crossed the coast near Calingapatam early in the morning of the 22nd, the pressure departure at the centre being of the order of 0·35″ and the wind force near the centre only 2 B. F. at the time of crossing the coast. The wind force at Gopalpur and Puri at the time when the storm crossed the coast was of the order of 8 B. F. These facts suggest that at the time of crossing coast the disturbance had a central calm of about 30 miles radius round which there was a belt of 50 to 60 miles width in which the wind was of force 8 to 9 B. F. This conclusion is also supported by the observations from Calingapatam, Gopalpur and Puri at 8 hours of the 22nd. According to log of *S. S.* "*Golconda*" it appears that the belt of stormy winds might have had a width of about 100 miles at 9 P. M. on the 20th. The following extracts from the reports of the Port Officers of Puri and Calingapatam are significant:—Puri—"Practically from the morning of the 21st the weather was gloomy and sultry and some bad weather was suspected and suspicion really confirmed when intimation was received from your office at 12-50 P.M., announcing approach of a deep depression from Circars coast. The force of wind gradually increased from 6 P.M. of 21st October and the fury of the wind was severely felt from 11 P.M. at 30-40 miles speed per hour resembling a strong gale with occasional sprinkling showers, The high pitch of wind was blowing the whole day of 22nd accompanied with intermittent showers and blowing sand though it was wet. People residing on the first row of sea beach rather felt the severity of the weather which kept them indoors and it was extremely difficult to walk on the road with umbrellas on, sand was hitting like pellets. Gale winds continued so till the evening of 23rd when gradually the wind moderated. It wrought no material damage to any building except thatches of few houses were blown off and small branches of trees broken"

Calingapatam—"..... In the evening of 21st October 1932, the sky became cloudy and drizzling commenced and gradually increased into rain and showers with overcast sky accompanied by strong breeze, till about one or two A.M. on 22nd October 1932. After that the rain was reduced to drizzling till about 5 or 6 A.M. and normal weather prevailed after 7 A.M., when the sun appeared on the eastern horizon.

.....although the storm crossed coast very near to this port, nothing of noteworthy has happened except some showers. There was strong breeze, no doubt, but not a single branch of any tree has been broken. The sea was not also very rough. ..... practically no damage has been done either to person or property. In my humble opinion the great danger signal No. 10 ordered to be hoisted appeared to me too much when compared to the state of the storm."

The deep depression weakened after crossing the coast and lay over Ganjam at 8 hours of the 22nd. Thereafter it took a more or less northerly course and entered Orissa whence it turned to northeast and filled up over west Bengal by the 24th night.

The disturbance caused locally heavy rain in Tenasserim on the 18th and widespread light to moderate rain on and near its track from the 21st to the 24th.

TABLE I.

Date.	Steamer or Station.	Hour.	Position. Lat. N.	Position. Long. E.	Wind. Dir.	Wind. Force.	Remarks.
			° ′	° ′			
19th Oct.	"Shahjehan"	8	13 35	94 30	NNW	..	Rain.
	"Jalavijaya"	5½	15 40	96 00	NNW	5	
	Amherst	8	..	..	ENE	3	Thunder-storm.
	Tavoy	8	..	..	SSE	2	Dist. Lightning, (Shower), 7" of rain during past 24 hours.
	Victoria Point	8	..	..	W	7	Thick drizzle, (Rain, Squall), 4" of rain during past 24 hours.

TABLE II.

Date.	Hour.	Pressure reduced to S. G. and M. S. L.	Wind. Dir.	Wind. Force.	Average speed past 24 hours. (m. p. h.)	Weather Diary.
Table Island.		"				
18th Oct.	8	29·772	S	1	5	Light air.
19th	8	29·683	N	2	6	From 23 P. M. to 3 A.M. storm gale and from 4 A.M. to 6-30 A.M. hurricane.
20th	8	29·533	S	6	15	Storm gale hurricane and very rough sea, rain and rainsquall, from thunder 14·0 to 14·5.
21st	8	29·775	SSE	3	15	Fresh breeze and rough sea.
22nd	8	29·867	S	1	16	Moderate breeze and slight sea.

Diamond Island.

Date.	Hour.	Pressure reduced to S. G. and M. S. L.	Wind. Dir.	Wind. Force.	Wind. Average Speed. (m.p.h.)	Weather Diary.
		"				
18th Oct.	8	29·833	Calm	0	..	
	17	·706	W	2	..	
19th	8	·714	NW	3	5	7 to 19·30 sky mainly overcast. Intermittent thunderstorm with rain. Gentle breeze from northwestward with periods of calm.

TABLE II—*contd.*

Diamond Island—contd.

Date.	Hour.	Pressure reduced to S. G. and M. S. L.	Wind. Dir.	Wind. Force.	Wind. Average Speed. (m.p.h.)	Weather Diary.
		"				
19th—*contd.*	17	·637	NNE	5	..	19·30 to 0 hrs. strong breeze from eastward with lulls followed by moderate squalls. Thunderstorm continues.
20th	2	·610	ENE	6	12	Rain with squalls. Occasional moderate precipitation. Occasional vigorous squalls. (Thunderstorm).
	8	·681	ESE	8	18	0 to 3 hours sky overcast. Intermittent moderate squalls accompanied with rain. Sea very rough, swell heavy and short. 3 to 17 hours sky overcast, intermittent showers. Steady fresh to strong gale from ESE.
	11	·670	ESE	9	23	Occasional light precipitation.
	17	·682	SSE	4	..	
21st	2	·710	SE	7	15	Occasional light precipitation.
	8	·835	SSE	5	18	0 to 4 hours sky mainly overcast. Intermittent showers. Moderate gale from SE and sea rough. 4 to 19 hours. Sky mainly overcast. Intermittent rain showers. Breeze dropped in strength fresh to light, direction SSE. Sea rough to moderate. From 19 to 0 hours variable sky. Intermittent showers. Breeze direction varying SE to westwards.
	11	·850	SSE	4	12	Showers.
	15	·810	SE	4	12	
	17	·847	SSE	2	..	
	19	·890	WNW	2	6	
	23	·910	ESE	3	3	Occasional light precipitation.
22nd	2	·880	E	2	9	
	8	·930	ESE	3	8	Intermittent showers early in the morning. Gentle to light breeze, from southwestward with intermittent calm.
	11	·890	ESE	4	9	
	17	·845	SSW	2	..	

TABLE III.

S. S. Golconda.

Date.	Hour.	Position. Lat. N.	Position. Long. E.	Barometer.	Wind. Dir.	Wind. Force.	Remarks.
		°	°	"			
19th Oct. .	15½	19·24	89·0	..	NE	2	Slight sea, swell low.
	17½	18·48	89·0	..	NE	2	Slight sea.
	24	18·00	89.02	29·71	NE	2	Light breeze, slight sea. Fine and cloudy.
20th .	2	17·48	89·15	·68	NE	2	
	4	17·32	89·20	·64	NNE	2	Light breeze, Slight sea and swell, Fine, Clear and Cloudy.
	6	17·16	89·26	·65	N/E	3	
	6½	9·30	91·42	..	SSW	5	Rough sea, swell moderate, Rain, Squall.
	8	16·52	89·35	·69	NE	3	Dull overcast. Cloudy. Slight sea and swell.
	10	16·32	89·40	·70	NE	3	
	12	16·28	89·43	·65	NE	5	Barometer falling. Wind began to freshen (250 miles N 60° W of a depression at 15½° N 93° E), continuous rain. Dull. 12·30 heavy rain. Moderate sea, slight swell, overcast.
	14	16·12	89·43	·58	N/E	5	Estimated storm centre bearing S 51° E. Distant 100 miles. 1·30 speed increased.
	16	15·56	89·43	·50	N	5	Fresh breeze, rough sea and moderate swell overcast, heavy rain, vessel rolling.
	17	15·48	89·43	·41	NNE	..	
	17½	15·40	89·40	..	N	9	Very high sea, heavy swell, rain, squall.
	18	15·40	89·43	·34	N	9	Fierce squalls, wind backed to N from NE increasing in force.
	19	15·32	89·43	·32	NW	9	Fierce squalls, wind backed to NW from N (force 10).
	20	15·24	89·42	·23	NW	10	Whole gale, fierce squalls, Barometer fell to 29·21, continuous rain.
	20	15·24	89·42	29·23	NW	10	Whole gale fierce squalls, Barometer fell to 29·21, continuous rain, vessel labouring, high sea, heavy swell (NE).

TABLE III—*contd.*

S. S. Golconda—contd.

Date.	Hour.	Position. Lat. N.	Position. Long. E.	Barometer.	Wind. Dir.	Wind. Force.	Remarks.
		°	°	"			
20th . .	21	15·16	89·42	..	NW	10	Fierce squalls and rain and high sea and swell. Barometer fell to 29·14.
	22	15·08	89·42	·29	SW	10	Fierce squalls and rain (heavy), high sea and swell. Barometer rose to 29·27 and then fell again from 21 hours with rain and thunder and lightning and showers of large hailstones at 22 hours for 5 minutes.
	23	15·00	89·42	..	SW	10	Fierce squalls and heavy rain, high sea and swell wind force 80 m.p.h. Barometer fell to 29·17.
	24	14·51	89·42	·29	SW	9	Whole gale, continuous rain with fierce squalls, vessel labouring and shipping heavy water over all.
21st . .	1	14·43	89·42	·40	SW/S	9	Fierce squalls, heavy rain, wind backed to SW/S. Barometer began to rise.
	2	14·35	89·42	·45	SW/S	8	Ditto.
	4	14·19	89·41	·50	S/W	7	Moderate gale, heavy rain, fierce squalls, high sea, heavy swell (SW).
	5	14·11	89·41	·57	SSW	6	
	6	14·03	89·41	·63	SSW	6	
	8	13·47	89·41	·71	SW/S	5	Rough sea and heavy swell, frequent fierce squalls of wind and rain and stormy wind.
	10	13·31	89·41	·76	SW/S	5	
	12	13·14	89·40	·76	S	3	Weather gradually moderated, Gentle breeze, occasional rain, moderate sea and swell, dull and overcast.

TABLE IV.

Station.	Date.	Hour.	Pressure.		Wind.		Weather Remarks.	
			Change.	Departure.	Dir.	Force.	Present.	Past.
			"	"				
Calingapatam . . .	21st Oct. .	19	—·077	—·197	WNW	3	Intermittent slight drizzle.	Drizzle.
Gopalpur	Do. .	19	—·077	—·157	NNE	7	Ditto . .	Shower.
Puri	Do. .	19	—·037	—·137	ENE	6	Squall	(Shower, squall).
Calingapatam . . .	Do. .	23	—·196	—·316	WNW	7	Rain squall . . .	Shower, squall.
Gopalpur	Do. .	23	—·146	—·226	NNE	8	Haze 4 . . .	Showers.
Puri	Do. .	23	—·066	—·166	ESE	8	Heavy squall 3 . .	Vigorous squall.
Calingapatam . . .	22nd Oct. .	2	—·191	—·311	WSW	9	Very heavy continued precipitation.	Thunderstorm.
Gopalpur	Do. .	2	—·171	—·251	SSW	8	Intermittent slight drizzles.	Shower.
Puri	Do. .	2	—·041	—·141	SSE	8	Heavy squall . .	Sand-storm.
Calingapatam . . .	Do. .	5	—·024	—·144	WSW	2	Rain 3 . . .	Light continuous rain.
Gopalpur	Do. .	5	—·134	—·214	SSE	8	Intermittent light drizzle.	Shower.
Puri	Do. .	5	—·044	—·144	SSE	8	Heavy squall. . .	Vigorous squall.
Calingapatam . . .	Do. .	8	—·060	—·190	WSW	4	....	Thunderstorm.
Gopalpur . . .	Do. .	8	—·090	—·180	SSE	8	Drizzle . . .	Shower.
Puri	Do. .	8	—·030	—·130	SSE	6	Squall 3 . . .	Shower.

14. *Arabian Sea storm of 14th to 22nd October 1932.*— The activity of thunderstorms increased in the neighbourhood of south Madras on the 7th and 3″ of rain was recorded at Mangalore and 4″ at Calicut on the 8th morning. A fall of pressure was noticeable along and off Malabar on the 9th morning when Colombo recorded 3″ of rain; this station received another 5″ of rain by 8 hrs. on the 10th. During this day, the fall of pressure was accentuated by the westward movement of another wave of low pressure associated with unsettled conditions from the southwest Bay of Bengal and a low pressure area formed in the southeast Arabian Sea off Malabar. On the afternoon of the 10th, the upper winds at Colombo were W to SW upto 2 Km. (light upto 1 Km. and moderate to strong at 2 Km.) while those at Trivandrum, which were light N to NE-ly upto 2 Km. on the 10th morning, had veered by the 11th morning to light S-ly winds. Mangalore upper winds on the 11th morning were mainly E-ly and force 5-6. Widespread and locally heavy falls of rain occurred in south Madras during the 10th and 11th and signs of a closed circulation setting up round the central region of the low pressure off Malabar were noticeable on the 12th morning. Thereafter, Mangalore upper winds began to veer and became light to moderate SE-ly upto 2·5 Km. and SW-ly (force 4-6) at 4 and 6 Km. on the 13th afternoon. By this time, a depression had formed which was centred near Lat. 11°N and Long. 74°E on the 14th morning.

The depression began to move slowly northwestwards and the central region may be located successively near Lat. 13½°N and Long. 72½°E on the 15th morning and about Lat. 15°N and Long. 70°E on the next morning; the exact position of the centre is somewhat uncertain as observations are lacking from near the central region of the depression. Thereafter the depression appears to have moved westwards. The exact position of the centre on the 17th morning is also somewhat uncertain as no observations are available from its neighbourhood, but it appears probable that at that time the central region lay in the neighbourhood of Lat. 15°N and Long. 69°E. By the 18th morning, the depression had moved further westwards and lay near Lat. 15°N and Long. 67°E. The weather experienced by *S.S.* '*Rawalpindi*' (18th noon position Lat. 15°33′ and Long. 59°18′) and by

S. S. '*Clan Mathesan*' on the 18th, both bound from Aden to Bombay, indicates that the depression was intensifying during this day. An extract from the log of *S. S.* '*Clan Mathesan*' is given below :—

Date.	Hour.	Position.		Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.	Dir.	Force.			
		°	°					
18th October . . .	Noon	15·42	59·17	N	4	Slight to moderate.	From N . . .	Generally cloudy.
	4 P.M.	..	..	N	4	Moderate .	Do. . . .	Occasional rainsqualls. Overcast.
	8 P.M.	..	..	N	5-6	Do. .	Moderate swell from N.	Heavy squall accompanied by rain. Lightning to NE.
	Midnight	..	..	N	5-6	Do. .	Do. .	Frequent rainsqualls.
19th October . . .	4 A.M.	..	..	NE	6	Moderate to rough.	From NE . .	Frequent heavy rainsqualls. Frequent vivid lightning to SE.
	5 A.M.	..	..	ENE	6	..	....	
	6 A.M.	..	..	E/N	6	..	....	
	7 A.M.	..	..	E	7-8	..	....	
	8 A.M.	16·45	62·46	E/S	7-8	Rough . .	Confused swell from E.	Frequent squalls of gale force.
	Noon	16·57	63·28	E	6	Do. . .	Do. .	Frequent severe rainsqualls.
	4 P.M.	..	..	E	6	Do. . .	Do. .	Occasional showers.
	8 P.M.	..	..	SE	5	Do. . .	Moderate swell from SE.	Occasional rain.
	Midnight	..	..	SE	4-5	Moderate .	Moderate swell from SW.	

It will be seen from the above log that between 7 and 8 hrs. on the 19th she experienced E to E/S wind of force 7-8 with frequent squalls. The depression thus appears to have developed into a storm by the 19th morning, with centre near Lat. 15½°N and Long. 63°E. The storm thereafter moved very slowly and was centred near Lat. 15½°N and Long. 62½°E on the 20th morning and near Lat. 15½°N and Long. 62°E on the next morning. *S. S.* '*Dorsetshire*' (bound from Aden for Bombay), an extract from whose log is given below, experienced NE-ly to E-ly gales between 4 and 8 hrs. on the 22nd. Her observations indicate that the storm had not begun to weaken till the 22nd morning, when it was centred near Lat. 16°N and Long. 61½°E.

Date.	Hour.	Position.		Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.	Dir.	Force.			
		° ′	° ′					
21st	8 A.M.	15 37	57 58	N	5	Moderate .	Heavy swell.	
	Noon	15 49	58 49	NNW	6	Moderate to rough.	Heavy confused swell.	Cloudy.
22nd	4 A.M.	..	..	NE	8-9	High . .	Confused swell .	Frequent heavy rainsqualls.
	8 A.M.	16 41	62 32	E	7-8	Do. . .	Do. .	Overcast.
	Noon	16 51	63 17	E	5-6	Do. . .	Do.	
	4 P.M.	..	..	E	4	Moderate .	Do.	

Observations of both *S. S.* '*Clan Mathesan*' and *S. S.* '*Dorsetshire*' show that the storm had comparatively stronger winds to the north of its centre. It is not, however, possible with the available information to say what was the lowering of barometric pressure at the centre of the storm. After the 22nd morning, the storm weakened very rapidly; there remained on the next day only an extended trough of low pressure over the central Arabian Sea which became unimportant on the 26th.

Associated with this storm, scattered thundershowers continued in the west of the Peninsula throughout the period between the 12th and 26th, the region of thunderstorm rain also extending east and northwards occasionally. Some of the noteworthy heavy falls of rain besides the ones already mentioned are given below: Madras recorded 6″ and Pamban 5″ on the 11th, Cochin 5″ on the 12th and Calicut 4″ on the 15th.

15. *Storm of 23rd to 26th November.*—The seasonal trough of low pressure over the south Bay of Bengal became well pronounced after the 18th; Victoria Point had 3″ of rain on the 19th and Port Blair the same amount on the next day. The easterly upper winds at Port Blair had also strengthened. On the morning of the 21st conditions were markedly unsettled between Ceylon and the Andaman Sea and a depression had formed by the next morning as indicated by ships' observations; *S. S.* '*Waroonga*', which was about 200 miles to the north of the centre, reported wind of force 7 and rough seas. The depression had intensified into a storm by the morning of the 23rd and lay with its centre near Lat. 8° N. and Long. 87° E. Observations of ships to the southwest of the centre of the storm are given below:—

Date.	Ship.	Hour.	Position.		Wind.		Sea.	Weather Remarks.
			Lat. N.	Long. E.	Dir.	Force.		
			° ′	° ′				
23rd November .	"Fuku Maru" .	20	5 51	86 42	W by S	7	Very rough . .	Rain.
	"Crown of Galicia"	20	11 38	84 03	NE	6-7	Rough sea and confused heavy swell.	Heavy rain and squalls.
	"City of Shanghai"	8	17 52	86 25	NE	6	Rough sea with NE heavy swell.	Rain and squalls.
	"Fagervik" . .	20	9 12	82 00	NW	6	High sea . .	Rain and squalls.

The further progress of the storm is indicated by the logs of the following steamers:—

S. S. "*City of Calcutta.*"

Date.	Hour.	Position.		Bar.	Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.		Dir.	Force.			
		° ′	° ′	″					
23rd November . .	4	..	..	29·780	NW	2	Slight . .	Slight . .	Overcast sky, continuous heavy rain.
	8	07 02	82 00	29·810	W	2	Slight . .	Slight . .	Overcast sky, light rain.
	12	07 40	81 57	29·770	W	4	Slight . .	Slight . .	Overcast sky, continuous rain throughout the watch.
	16	..	..	29·660	W by S	5	Moderate .	ENE moderate	Overcast sky continuous heavy rain.
	20	..	..	29·700	WSW	6	Rough . .	..	Overcast sky, frequent heavy rain showers.
	00	..	..	29·650	W by N	7	High . .	..	Overcast sky, vessel pitching and tossing, continuous heavy rain throughout the watch.

M. V. Ruhr.

Date.	Hour.	Position.		Bar.	Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.		Dir.	Force.			
		° ′	° ′	″					
23rd November . .	4	..	..	29·700	W by S	7	High . .	W, heavy short length.	Overcast sky, rain and squalls.
	8	03 51	86 00	29·736	W by S	7 to 8	Very high .	W/S, heavy short length.	Do.
	12	04 05	85 27	29·727	W by S	8 to 9	Very high .	W, heavy short length.	Cloudy and squalls.
	16	..	..	29·676	W by S	8 to 9	Very high .	W, heavy average length.	Do.
	20	..	..	29·755	W by S	8 to 9	Very high .	W/S, heavy short length.	Overcast sky and squalls.
	00	..	..	29·762	W by S	8 to 9	Very high .	W, heavy short length.	Do.

By the morning of the 24th the storm had increased in severity and, after moving in a northwesterly direction, lay with its centre near Lat. 10° N. and Long. 82° E. Locally heavy rain was reported from south Madras; Trivandrum and Negapatam reporting 5″ each. At 14 hrs. the centre had moved to Lat. 11° N. and Long. 82° E. Pamban reported a moderate gale and very rough sea. At 19 hrs. the Madras wind had risen to a fresh gale and the seas were very high, while Pamban continued to report a moderate gale and very rough sea. W-ly winds south of Ceylon were also strong.

Extracts from the weather logs of ships near the storm are given below :—

Date.	Ship.	Hour.	Position.		Wind.		Sea.	Remarks.
			Lat. N.	Long. E.	Dir.	Force.		
			° ′	° ′				
24th November .	"Fagervik" . .	8	10 02	81 56	Variable	9	Precipitous . .	Overcast sky, rain and squalls.
	"Crown of Galicia"	8	13 02	84 20	ENE	7	High . . .	Overcast sky, confused heavy swell.
	"Fusijama" . .	20	05 48	86 55	SW	7	Very rough . .	Cloudy.

M. V. Ruhr.

Date.	Hour.	Position.		Bar.	Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.		Dir.	Force.			
		° ′	° ′	″					
24th November .	4	..	..	29·712	W by S	7 to 8	Very high .	Heavy, average length.	Cloudy, rain and squalls.
	8	04 57	83 24	29·747	W by S	8 to 9	Do. .	Heavy, short length.	Do.
	12	05 07	83 00	29·711	W by S	8 to 9	High . .	Do. .	Do.
	16	..	..	29·658	W by S	10	Very high .	Heavy, average length.	Cloudy and squalls.
	20	..	..	29·729	W by S	8 to 9	Do. .	Do. .	Overcast sky, and squalls.
	00	..	..	29·760	W by S	7 to 9	High . .	Heavy, short length.	Cloudy, rain and squalls.

S. S. City of Calcutta.

Date.	Hour.	Position.		Bar.	Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.		Dir.	Force.			
		° ′	° ′	″					
24th November .	1	..	..	..	W	7	..	..	00 to 2·15 continuous heavy rain exceptional at times.
	2	..	..	29·56	W	7	..	..	2·15 calm and then variable inclined N-ly, loud thunder and vivid lightning.
	3	..	..	..	NW by W	3	..	..	3·35 Torrential rain, visibility poor.
	4	..	..	29·49	N N W	3	Moderate .	Moderate confused.	Overcast sky rain.
	4·30	..	..	..	N	3	..	..	....
	5	..	..	..	W by S	6	..	..	4·35 Main topmast struck by lightning, carrying part of topmast away.
	6	..	..	..	W by S	6	..	..	5·4 Thunder and lightning ceased, visibility improved.
	7	..	..	..	NE	5	..	..	....
	8	09 48	81 36	29·56	NE	5	Rough . .	Very heavy NE.	Vessel pitching and labouring heavily. Heavy rain.
	12	10 11	81 34	29·52	N	4	Rough . .	Moderate .	Cloudy, occasional rain showers.
	13	..	..	..	N by E	4	..	..	....
	14	..	..	29·47	..	..	..	..	....
	16	..	..	29·43	N by E	4	Rough . .	Heavy, E .	Vessel rolling and pitching heavily, drizzle showers.
	17	..	..	..	E by N	5	..	..	....
	20	..	..	29·51	E by N	5	Rough .	Heavy, E .	Partly cloudy, vessel pitching and rolling heavily.
	22	..	..	..	ENE	5	..	..	....
	00	..	..	29·57	ENE	6	Rough . .	Heavy . .	Partly cloudy.

S. S. Rohna.

Date.	Hour.	Position.		Bar.	Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.		Dir.	Force.			
		° ′	° ′	″					
24th November .	13	..	..	29·51	N	5	..	..	....
	14	10 06	80 40	29·47	N	5	..	..	....
	15	..	..	29·48	N by W	4-5	..	..	....
	16	..	..	29·48	NNW	2	Moderate .	Heavy NE-ly	Light wind, heavy rain, dull and overcast.
	17	..	..	29·43	WSW	9	..	..	Wind shifted after lull from NNW to WSW in a violent squall at 4-15 P.M. to 4-45 P.M. at which time lowest barometer reading was recorded.

S. S. Rohna.—contd.

Date	Hour.	Position. Lat. N.	Position. Long. E.	Bar.	Wind. Dir.	Wind. Force.	Sea.	Swell.	Remarks.
		° ′	° ′	"					
24th November—*contd.*	18	..	..	29·47	WSW	8	..	..	....
	19	..	..	29·51	W by S	7	..	..	....
	20	..	..	29·55	WSW	7	High . .	Heavy . .	Moderate gale, overcast and cloudy, frequent rain squalls.
	21	..	..	29·58	WSW	6	..	..	....
	22	..	..	29·59	SW by W	5-4	..	..	....
	23	..	..	29·59	SW	5	..	..	....
	Midnight	..	..	29·59	SSW	4-5	Moderate to Rough.	Moderate to heavy SW-ly.	Overcast drizzle fresh breeze.

S. S. Waroonga.

Date.	Hour.	Position. Lat.	Position. Long.	Bar.	Wind. Dir.	Wind. Force.	Sea.	Swell.	Remarks.
		° ′	° ′	"					
24th November .	12	9 38	82 04	..	..	..	..	..	....
	15	..	..	29·52	WSW	7-8	Heavy . .	Heavy . .	Overcast, dull.
	16	..	..	29·54	WSW	8-9	..	..	....
	17	..	..	29·55	SW by W	9	..	..	....
	18	..	..	29·58	SW by W	9	High . .	High . .	Occasional rain squalls.
	19	..	..	29·61	SW by W	9	..	..	....
	20	..	..	29·64	SW by W	8-9	..	..	....
	21	..	..	29·66	SW by W	8	..	..	....
	22	..	..	29·66	SW by W	7-8	Heavy . .	Heavy . .	Overcast, frequent heavy rain squalls.

S. S. '*City of Calcutta*' which arrived at the Madras harbour on the morning of the 25th, and was about 360 miles south of Madras on the morning of the 24th experienced intense cyclonic weather during which her main mast was hit by lightning and was severely damaged.

The storm centre lay about 60 miles to the southeast of Madras on the morning of the 25th. It caused general rain in south Madras and Mysore with heavy falls in the basins of Palar, Dakshina Penner, Cauvery and Vaigai rivers; Negapatam recorded 12" of rain. *S. S.* '*Fagervik*' (Lat. 13° N. and Long. 13° E. approx.) at 20 hrs. reported a moderate gale from ENE and high sea. *S. S.* '*Erinpura*' which was very near its centre at 18·30 hrs. reported a strong breeze with very high seas, which she continued to experience till midnight.

The Port Officer, Negapatam, wrote—

".....The Port experienced severe weather attended with very rough sea and very heavy rain on the 23rd, 24th and 25th November 1932, rainfall recorded on these dates being 2·61, 5·13 and 12·18 inches respectively....."

After the evening of the 25th the storm weakened into a depression which passed inland near Madras early morning on the 26th. Weakening further it lay as a shallow low pressure area over Mysore and the adjoining parts of the Madras Deccan at 8 hrs. on that morning. The low pressure area moved westwards into the southeast Arabian Sea and became unimportant in the course of the next two days.

The storm caused locally very heavy rain in Ceylon and south Madras. It is reported that considerable damage was done to trees and houses near Jaffna in Ceylon and at Madras and other stations on the Coromandel coast.

16. *Depression of 30th October to 6th November.*—Unsettled conditions which appeared in the southwest Bay of Bengal on the 29th of October, developed into a shallow depression on the 30th, with central region near Lat. 11° N. and Long. 83° E. On the morning of the next day (31st) the depression was centred near Lat. 13° N. and Long. 83° E. and upper winds up to 3 km. above mean sea level were also cyclonic. *S. S. Chilka*, Lat. 17° N., Long. 90° E. was experiencing a strong SSW-ly breeze at 15·30 hrs.

The depression had moved northwards and on the morning of the 1st November it lay with its centre near Lat. 15½° N. and Long. 83° E. *S. S. Homefield* was experiencing a fresh SSE-ly breeze with showers and rain. *S. S. Jalatarang* reported a rough sea, moderate SW by S swell and moderate S by E breeze from Lat. 10° 56′ N., Long. 87° 24′ E. Thereafter the depression took a northwesterly course, crossed the coast near Cocanada during the night and lay with its centre near Jagdalpur on the morning of the 2nd. Moving further in a northerly direction the depression was centred about 120 miles west of Cuttack on the morning of the 4th; Puri was experiencing a moderate SSE-ly gale, with thunder and lightning. Thereafter it moved northeastwards and filled up over north Bengal by the morning of the 7th.

During its movement the depression caused widespread and locally heavy rain on the east Madras coast and northeast India.

17. *Depression of 9th to 15th November.*—Signs were noticeable of a strengthening of the northeast monsoon in the south Bay of Bengal on the 7th morning. Pressure fell over the region extending from Tenasserim to the Coromandel coast between the 8th and 9th and on the morning of the 10th conditions became unsettled between Ceylon and the Andaman Islands. The upper winds up to 4 km. indicated that a cyclonic circulation was setting up over that region. On the morning of the next day a depression had formed with centre near Lat. 10°N. and Long. 83°E. Ships in the Bay to the south and east of the depression were experiencing strengthened SW'lies. At 16·30 hrs. *S. S. Erinpura*, about 170 miles to the northwest of the centre was experiencing a strong N. breeze.

By early morning of the 12th the depression had intensified as well as elongated towards NE and was centred near Lat. 13°N. and Long. 83°E. The upper winds at Madras were between north and northwest from surface up to 4 km. while at Port Blair they were southerly up to 1·5 km. At 6·30 hrs. *S. S. Bernardin de St. Piere* began to experience a moderate N-ly gale, while at 9·30 hours *S. S. Garada* was experiencing a moderate NE-ly gale. At 10 hours *S. S. Bernardin de St. Piere* was about 60 miles to the west of the centre and her wind direction was NW, the gale strength having been maintained since morning. At 11 hours, the wind at Calingapatam had risen to a NNE-ly gale.

By the morning of the 13th the depression had appreciably weakened and was centred near Lat. 16½°N. and Long. 86°E., and ships 100 to 80 miles to its north and northeast were having only moderate breezes and seas.

S. S. Jalajyoti which was in the vicinity of the depression between the 11th and 13th sent the following interesting reports:—

"*November 11th.*—Weather at 8·00 A.M. was suspicious with a distinct swell from SW with wind in the NE. The vessel was rolling heavily.

Noon. Weather turned threatening. Wind increasing NNE force 4. Overcast and raining. Swell increasing SW, sea moderate.

8 P.M. Barometer falling. Weather getting worse. Wind East. Continuous rain. Rough sea. Heavy swell. Vessel now shipping heavy water. Now clear evidence of depression in close vicinity. Swell now becoming confused in direction. Vivid lightning in S. and E.

November 12th.—8 A.M. Weather continues as before. Barometer falling.

Noon. Weather appearing to be getting slightly better. Wind SW. Here considered that the vessel was across behind storm path although no rise in barometer.

3 P.M. Improvement not maintained. Storm warning by W/T gives centre of storm very near to ship's position. Altered course to South (true) under impression that the storm would continue to go N and W.

4 P.M. Weather gradually getting worse. Barometer 29·48. Falling. Swell high and confused. Wind S, 4-5.

8 P.M. Barometer 29·49″. Sky very heavy. Torrential rain with deafening thunder and vivid lightning. Wind NW, 4-5, having changed with great rapidity during severe squall. This weather continued throughout the night.

November 13th.—00·00. Barometer rising slightly 29·50″. Wind W; force 4-5. Heavy swell from westward.

8 A.M. Heavy weather continues. Barometer rising 29·65″. Resumed course considered out of all danger.

10 A.M. Wind shifts to SW. Clouds breaking up and squalls less frequent.

Noon. Occasional squalls. Heavy swell from WSW. Wind steady SW, 4.

Midnight. Weather fine. Swell moderate. Barometer 29·67″."

The depression continued to move in a NE-ly direction and, on the morning of the 14th, was centred near Lat. 20°N. and Long. 88°E. An extract from the log of *S. S. Karagola* which was near the centre, on the 14th is given below:—

Date.	Hour.	Position.		Bar.	Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.		Dir.	Force.			
		° ′	° ′	″					
14th November . .	02	..	..	29·73	SE	5	Rough . .	S by E, moderate.	....
	04	..	..	29·69	S by E	5	Rough . .	S by W, moderate.	....
	08	19 10	90 39	29·68	S by E	5	Very rough .	S, moderate .	....
	10	..	..	29·80	S	6	..	..	....
	12	19 38	90 07	29·72	S	6	Rough . .	S, moderate .	....
	14	..	..	29·68	SSE	6	Rough . .	S, moderate .	Squally.
	16	..	..	29·69	SSE	5	Rough . .	S, moderate .	Squally.
	20	..	..	29·67	SSE	6	Rough . .	S by W, heavy	....
	22	..	..	29·68	SSW	6	..	..	Squally.
	00	..	..	29·73	NW by N	3	Slight . .	S, moderate .	Drizzle and squalls.

The centre of the depression crossed the coast at about 2 hrs. on the 15th and at 8 hrs. on that day it was over Khulna in southeast Bengal. Widespread rain in south-and east Bengal and in lower Assam had occurred in the past 24 hours. Thereafter the depression, considerably weakened, moved to north Burma and filled up after causing nearly general rain in east Bengal and the Arakan coast.

18. *Unsettled Conditions of 1st—4th December 1932.*—Conditions were somewhat unsettled in the south Bay of Bengal since 27th November. On the morning of the 1st December ships in the neighbourhood of Lat. 9° N., Long. 83°E. reported slight to moderate seas with moderate to fresh breezes; ships considerably north of that region, *e.g., S. S. Mandala* at Lat. 14½°N., Long. 81⅔°E. and *S. S. Winkfield* at Lat. 14½°N., Long. 85¾°E., at 15·30 and 18·30 hours respectively were experiencing fresh NE-ly to NNE-ly breezes, and moderate to rough seas. At 8 P.M. of that evening *S. S. Hatipara* near Lat. 7½°N., Long. 84½°E. reported squally weather with rain. *S. S. Pasha* near Lat. 9¾°N., Long. 82°E. had logged continuous rain from 8 P.M. of the 30th November till midnight of the 1st December, with frequent squalls.

By the morning of the 2nd the unsettled conditions had further intensified and could be located near Lat. 9°N., Long. 84°E. A strong N-ly breeze was blowing at Pamban with a rough sea. *S. S. Pasha,* at Lat. 12¼°N., Long. 81¾°E. was experiencing rough seas with a strong NNE-ly breeze at 6·30 hours while *S. S. Sirsa* nearly 450 miles away, at Lat. 14½°N., Long. 81¼°E. was also experiencing a fresh NE-ly breeze, but with moderate seas. *S. S. Hatipara* at Lat. 7°N., Long. 82¾°E. also reported rough seas in the morning.

Thereafter the unsettled conditions persisted at the same place but became less marked though Colombo began to experience rough seas at 17 hours. By the early hours of the 3rd, the unsettled conditions had become less marked still but *S. S. Garmula,* near Madras at 8 hours reported rain squalls with a fresh NE-ly breeze, and moderate sea while *S. S. Maidan* near Lat. 8½°N., Long. 81½°E. at 8 hours reported squally weather. The weather became normal by the 4th afternoon.

Unsettled conditions caused locally very heavy rain on the Coromandel coast, Negapatam recording 10″ on the 3rd.

WESTERN DISTURBANCES.

The following is a list of the western disturbances which affected the weather in northern India during the year with the dates on which they did so and brief notes on the precipitation that they produced :—

	January.	
1	1—3 . .	A few light falls of rain or snow in Baluchistan on the 2nd and in Kashmir on the 3rd.
2	5—10 . .	A few falls of rain in Baluchistan on the 5th. Nearly general rain in the North-West Frontier Province on the 8th and 9th, in Kashmir on the 8th and in the Punjab on the 9th; local rain in the Punjab on the 8th, in Kashmir on the 9th and a few falls in Baluchistan from the 6th to 9th, in the North-West Frontier Province on the 7th and 10th, in Sind on the 8th and in the Punjab-Kumaon hills on the 10th.
3	11—12 . .	A few light falls of rain in the North-West Frontier Province on the 12th.
4	13—14 . .	Caused no precipitation.
5	17—20 . .	Local falls of snow in Kashmir on the 18th, 19th and 20th.
6	24—25 . .	A few falls of snow in Kashmir on the 24th.
7	26—27 . .	A few falls of snow in Kashmir on the 27th.
8	29—30	Local falls of rain or snow in Kashmir with a few falls of rain in the North-West Frontier Province on the 30th.

9	31—6th February	Nearly general rain or snow in the North-West Frontier Province and Kashmir on the 31st January and in Kashmir on the 1st February, and widespread rain in Assam on the 4th and in Upper Burma on the 6th; local rain in the east and north Punjab on the 1st and 2nd, in the North-West Frontier Province and in the Kumaon hills on the former date and in Upper Burma on the 5th and 6th; a few falls also occurred in Baluchistan and the Punjab hills on the 31st and in Bengal, Assam and Baluchistan on the 2nd.
	February.	
10	5—7 . .	A few light falls of rain in east Rajputana and scattered duststorms in lower Sind on the 6th.
11	9—11 . .	Local rain in Kashmir and the Punjab hills on the 10th and nearly general rain or snow at the latter division on the 11th.
12	12—16 . .	Fairly widespread rain or snow in Kashmir and the east and north Punjab on the 13th and nearly general rain in Bihar on the 14th, with local falls of rain or snow in the North-West Frontier Province and Kashmir on the 12th, in the west United Provinces on the 13th and 14th and in Chota Nagpur on the latter date; a few falls also occurred in Baluchistan and the Punjab on the 12th, in the south-west Punjab on the 13th, in the east United Provinces on the 14th, in the Kumaon hills, Bihar and Bengal on the 15th and in Assam on the 14th, 15th and 16th.
13	18—20 . .	Fairly well distributed general rain from the west Central Provinces and east Central India to Orissa and southwest Bengal on the 19th and in Bengal and Assam on the 20th; local thundershowers also occurred in east Central India and the Central Provinces on the 18th.
14	19—21 . .	Gave no precipitation.
15	22—27 . .	Scattered falls of rain in the North-West Frontier Province and Kashmir on the 26th and in the Punjab hills on the 26th and 27th.
16	28—1st March .	Nearly general rain in the North-West Frontier Province on the 28th and 29th and local rain in Baluchistan on those two days, in Kashmir on the 29th and 1st March and in the southwest Punjab on the 29th, with a few falls in and near the Punjab hills from the 28th February to 1st March.
	March.	
17	1—3 . .	Nearly general rain in the North-West Frontier Province on the 2nd and a few falls in Kashmir on the next day.
18	4—7 . .	Local falls of rain or snow in Kashmir with a few falls in the North-West Frontier Province and the Punjab hills on the 6th.
19	8—12 . .	Fairly widespread rain in Baluchistan on the 8th, in the North-West Frontier Province and Kashmir from the 8th to 10th and in the Punjab on the 9th, with local rain in the east and north Punjab on the 10th and 11th; a few falls also occurred in the southwest Punjab on the 10th, in Kashmir on the 11th and in the Punjab hills on the 8th and 12th.
20	13—15 . .	A few light showers in Baluchistan on the 13th and along the northwest frontieier on the next day.
21	19—24 . .	Nearly general rain in the North-West Frontier Province on the 23rd and fairly widespread thunderstorm rain in the Punjab, the west United Provinces and Rajputana on the 24th with a few falls along the northwest frontier from the 20th to 22nd, in Baluchistan and the east and north Punjab on the 23rd, in Kashmir on the 23rd and 24th and in Sind on the latter date.
22	24—26 . .	Local rain in Baluchistan on the 24th and fairly widespread rain from the Punjab-Kumaon hills to the Central Provinces on the 25th.
23	26—30 . .	Nearly general rain in north Baluchistan on the 26th and local rain there with a few falls in the North-West Frontier Province on the 27th, and fairly widespread rain in the North-West Frontier Province and the Punjab on the 28th and 29th with local rain in Kashmir on the 29th and 30th; scattered dust or thunderstorms also occurred generally over northwest India on the 29th and nearly general thunderstorm rain along and near the Punjab-Kumaon hills on the 30th.
	April.	
24	1—5 . .	Local rain in the North-West Frontier Province on the 3rd, in Kashmir on the 3rd and 4th and a few falls in the North-West Frontier Province on the 2nd, in the east and north Punjab on the 3rd and in Kashmir on the 5th.
25	6—7 . .	A few falls of rain in Kashmir on the 6th.
26	15—16 . .	A few thundershowers in the North-West Frontier Province, the east and north Punjab and Kashmir on the 16th and in the Punjab-Kumaon hills on the next day with scattered duststorms in the North-West Frontier Province on the 15th and in the southwest Punjab on the 16th.
27	19—21 . .	Light local thundershowers in the North-West Frontier Province on the 21st.
28	22—28 . .	Local rain in north Baluchistan on the 24th and in the east and north Punjab and in the west United Provinces on the 25th; a few thundershowers in north Baluchistan and the North-West Frontier Province on the 23rd, in the east and north Punjab on the 24th and in Kashmir on the 25th, with scattered duststorms in the west Punjab on the 23rd and 25th. It was followed by a secondary disturbance which filled up over north Baluchistan and upper Sind causing nearly general thunderstorm rain in the North-West Frontier Province on the 27th and 28th and local rain in north Baluchistan on the 27th, with a few falls there on the 25th, 26th and 28th and in the east and north Punjab on the 27th and scattered light thundershowers in the southwest Punjab on the 26th.
29	29—1st May .	Local rain in the North-West Frontier Province on the 29th and 30th, in Kashmir on the 29th and 30th and the 1st May and in the Punjab hills on the 30th, with a few falls in Baluchistan on the 29th and 30th, in the Punjab hills on the 29th and in the Punjab-Kumaon hills on the 1st May.

	May.	
30	2—3 . .	Nearly general rain in the North-West Frontier Province with a few falls in Kashmir and the north Punjab on the 2nd and light showers along the north-west frontier and in Kashmir on the 3rd.
31	14—17 . .	Local rain in the North-West Frontier Province and Rajputana and a few falls in Sind with scattered duststorms over northwest India on the 16th and a few light thundershowers along the northwest frontier, in Kashmir, the east and north Punjab and east Rajputana on the next day.
32	21—26 . .	It accentuated the seasonal low pressure area over northwest India on the 24th. A few falls of rain occurred in Kashmir on the 23rd and fairly widespread rain there and in the Punjab-Kumaon hills on the 24th and 25th, with scattered dust-storms in the Punjab and Rajputana on the former date.
	June.	
33	19—22 . .	A few falls of rain in Kashmir on the 19th. Fairly widespread thunderstorm rain in the Murree hills on the 20th, in Kashmir on the 20th and 22nd, from the North-West Frontier Province to the west United Provinces on the 21st and in the east and north Punjab on the 22nd with a few falls there on the next day.
	July and August.	
34		No well defined western disturbance.
	September.	
35	20—21 . .	Local thundershowers in the North-West Frontier Province on the 21st.
	October.	
36	4—8 . .	Widespread duststorms in the North-West Frontier Province and the north Punjab on the 4th and a few falls of snow in Kashmir from the 5th to 8th.
37	15—17 . .	A few falls of rain in Kashmir and its neighbourhood on the 15th and 16th.
38	21—23 . .	A few falls of rain in Kashmir and the Punjab-Kumaon hills on the 22nd and 23rd.
39	27—29 . .	No precipitation.
	November.	
40	20—24 . .	No precipitation.
41	25—26 . .	No precipitation.
	December.	
42	14—25 . .	Nearly general rain or snow in Kashmir and the Punjab-Kumaon hills on the 21st and 23rd and fairly widespread rain in the Punjab-Kumaon hills and the northern districts of the United Provinces on the 24th and in Assam on the 25th; local falls of rain or snow also occurred along the frontier from the 17th to 23rd and in Kashmir from the 17th to 20th and on the 24th and local rain in Bihar, north Bengal and Assam on the 24th.
43	25—26 . .	Local falls of rain or snow along the frontier on the 25th and a few light showers along the western Himalayas on the next day.
44	27—30 . .	A few falls of rain or snow along the frontier and in Kashmir and the north Punjab on the 28th and local rain or snow along the western Himalayas on the next day. Local falls of rain also occurred in the plains of the east and north Punjab and a few light showers in the southwest Punjab, the plains of the United Provinces and in Chota Nagpur and Bihar on the 29th.
45	30 . . .	Nearly general rain or snow in north Baluchistan and Kashmir on the last day of the month.

LOCAL STORMS.

Of the local storms reported in the newspapers, the following are noteworthy :—

February 28th.—A severe hailstorm followed by rain occurred at Jalgaon on the evening of the 28th. As a result of the fall of hail-stones, which in some cases were as large as full-sized lemons, the trees lost their foliage almost everywhere. Much damage was done to the mango and other fruit crops. Several electric road lamps were smashed and two persons were said to have been seriously injured as a result of the storm.

February last week.—The standing crops around Jubbulpore were considerably damaged as the result of a duststorm and rain during the last week-end of February.

March 9th.—Several persons were buried alive as the result of the collapse of a wall on the 9th in Peshawar City due to stormy weather.

March 10th.—Torrential rains accompanied by hailstorms, lightning and peals of thunder caused damage to crops and fruit blossoms in and around Peshawar.

March 20th.—A severe nor'wester swept over the villages of Saidabad, Rupsha, Nali, Neelgram, Darikanda and others of east Bengal as a result of which four persons were killed and 50 seriously injured. Considerable damage was caused in Sivalaya, the roofs of the Police Station and the Post Office being blown away. The nor'wester came from the north, crossed the river Padma and devastated many villages on the banks of the river. Hundreds were rendered homeless and several cattle were reported to have died.

April, 1st week.—A severe duststorm with thunder and lightning passed over Hyderabad (Sind) causing considerable damage. The whole city was enveloped in darkness for some time and the velocity of the wind was so great that it carried away whatever came in its way. The mango and apple gardens suffered the most. Many trees were uprooted and the fruits from others dropped down.

April 5th.—Serious damage was caused by a severe thunderstorm which swept over the town of Tinnevelly for about fifteen minutes on the evening of the 5th. Trees were uprooted, telegraph lines cut and the roofs of nearly 100 houses

on the main road between the Town and Junction were blown off.

April 12th.—A severe thunderstorm with duststorm followed by heavy showers of rain passed over Tirupur in the evening causing considerable damage in a number of places. Factory buildings, dwelling houses and other properties were damaged. A number of trees were uprooted or the branches broken and carried away. The storm was so very furious that in almost all the places roofs were damaged and destroyed. The cotton crop in the Tirupur area, where the first crop picking was in progress, was also damaged.

A thunderstorm occurred at Coimbatore and lasted about two hours; thunderstorms seem to have occurred all over Coimbatore District. Rivers and jungle streams swelled out of proportion and traffic on important roads in several parts of the district was held up for some hours. In some parts of the district, trees were uprooted and cattle and crops were washed away.

April 16th.—A severe thunderstorm swept over the port of Bhavnagar when for nine hours the work of discharging cargo from ships was stopped. Due to strong winds, one barge broke away from its mooring and drifted away.

May 1st.—A severe storm passed over the village of Majhirgati, seven miles north of the town of Khulna. It resulted in the instantaneous death of two men and two women and serious injuries to about 100 persons. A large number of cattle lost their lives. The standing crops were entirely destroyed. Almost all the villagers were rendered homeless. In an adjoining village two men were killed by lightning.

May, 1st week.—Seven members of a family of eleven were killed by lightning when they came outside to have a look at a big hail stone which fell in the court-yard of a cultivator during a tornado which burst over Hajiganj, about seven miles from Faridpur. A number of villagers were injured and several herds of cattle lost, huts and thatched houses razed to the ground and standing crops damaged.

May 9th.—A severe tornado passed over Mymensingh between 3-30 P.M. and 4 P.M. on the 9th May. It was considered to be the most violent ever experienced there within the living memory of people and was responsible for the collapse of a part of the Mymensingh Jail Buildings. Huge blocks of brick walls and iron beams from the jail building were carried away a long distance. The jail was almost razed to the ground and the majority of the roofs were lifted away. The tornado swept over the neighbouring villages demolishing many houses and adding to the death roll. Some prisoners and warders were reported to have been killed by the falling buildings. Heavy rain followed the storm; but the town, which is about one mile away from the jail, was unaffected.

May 18th.—A severe storm passed between Lonavla and Malavli about 35 miles from Poona at about 5-30 P.M. causing serious damage to houses on the track of the storm and also to the Tata Company's Power Tower. As a result of this, the Railway and Telegraph communications were interrupted and the electric supply of the town of Poona was stopped during the whole night. The Bombay—Poona road was blocked by up-rooted trees and the railway huts made of iron, and other buildings were whirled off their foundations and deposited in pieces along the line.

May 24th.—A severe storm swept over Calicut, Kurumbanad, Ernad and Ponnani Taluks of the district of South Malabar, the areas affected being 20 miles inland. Trees were blown down in large numbers. Telegraph and telephone wires snapped and roads were blocked by fallen trees. Sixteen deaths were also reported the victims being mostly children. The Sub-Jail in Calicut was flooded. The Malabar Club on the sea front suffered severely. There was, however, no damage to the shipping at the port of Calicut.

July, 2nd week.—Of five members of a family in the village of Ramdattamal, consisting of one man, three women and a baby, two women were suddenly struck by lightning, which flashed through the roof of the house. One of them was killed although her baby, sleeping by her side escaped unhurt. The tragedy occurred during heavy rainfall in Patoyum in the Thar Parkar district, which was accompanied by thunder and lightning.

July 9th.—After heavy rain a sharp explosion startled the residents of the Kasauli Club and of Pahar View at Kasauli. Scattered pieces of stone were found littering the tennis court and the verandah and some pieces fell on the roof. The explosion was accompanied by a blinding flash of lightning and the wire netting which acted as a conductor saved the Kasauli Club and its inhabitants from destruction. A wooden post which was used to support wire netting was smashed to fragments.

July 13th.—At night a party of eight passengers was returning home in a country boat from the village of Elasin. While crossing the Dhaleswari river in East Bengal, a sudden squall upset the boat midstream. All the passengers were drowned.

July 16th.—A storm accompanied by lightning swept in the morning over the country between Lonavla and Battery Hill on the Poona-Bombay line of the G. I. P. Railway. One lightning flash struck the overhead electric wires of which one was brought down. This came in contact with one of the rails and as a result three feet of the steel rail was burnt right out.

August 27th.—A thunderstorm followed by torrential rain occurred at Aundh in the night and lasted for about three hours. The rain flooded the streets and water rushed into houses.

August 31st.—A heavy rainstorm swept across the Nira District in the night resulting in a severe washaway on the Southern Mahratta Railway, 36 miles from Poona between Dondaj and Walhe stations. All train communications were interrupted for about 48 hours.

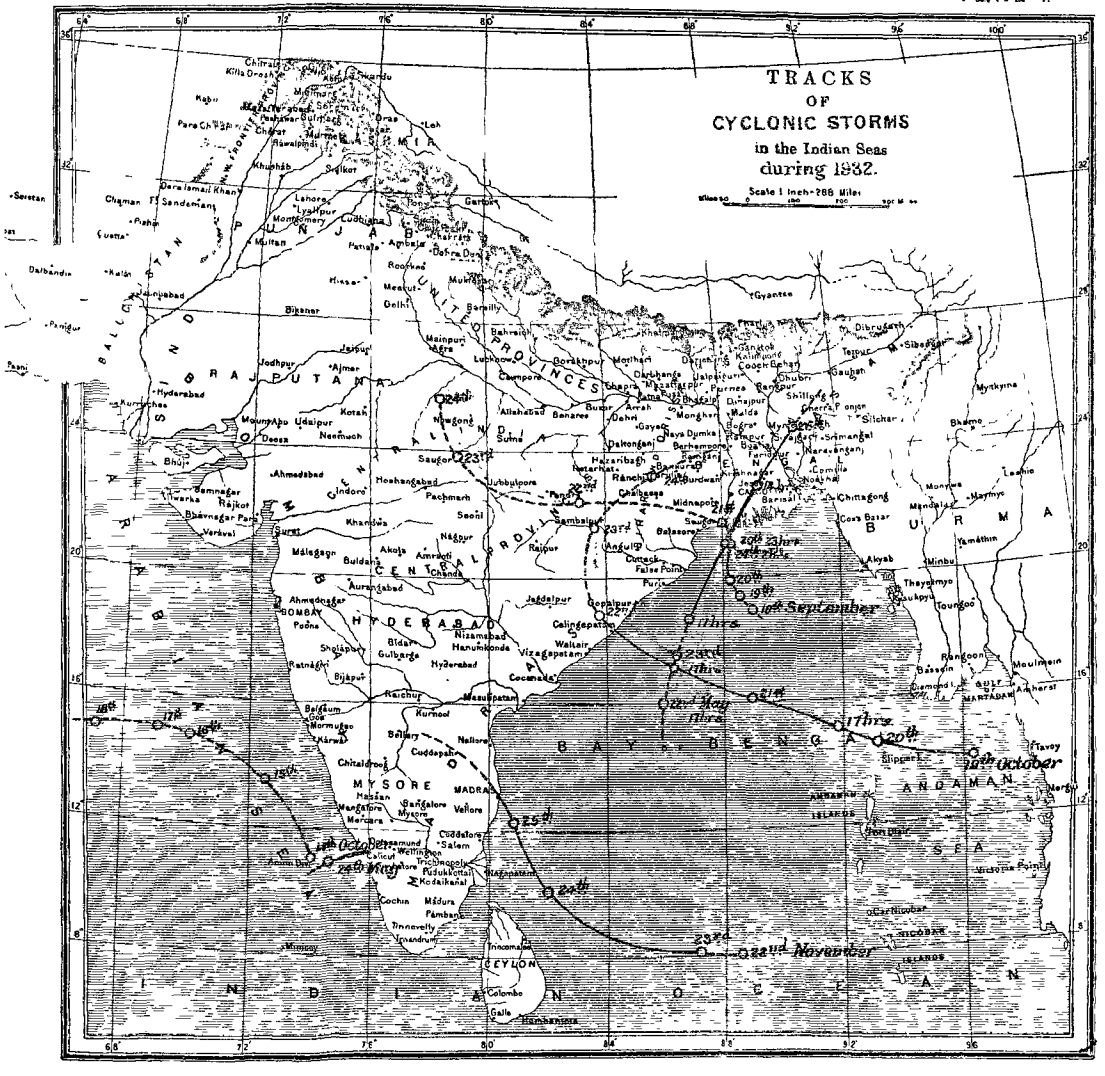
December 24th.—A severe and widespread hailstorm which occurred at Cooch Behar in the evening did considerable damage to the crops. The paddy and tobacco crops were reported to have been ruined. Many trees were uprooted and branches broken.

WINDS OF FORCE NINE OR MORE IN INDIAN SEAS.

Excluding dates of storms and depressions, a description of which has been given above, winds of force nine or more were recorded on ships in the Indian seas during the year 1932 on the following occasions:—

Date.	Name of ship.	Approximate Position.	
		Latitude. N.	Longitude. E.
		°	°
24th and 25th May	"Gurna" . .	Near Ponani.	
Ditto .	"Celebes Maru" .	10·11	75·75
Ditto .	"Jalaputra" . .	At anchor at Calicut.	
25th May . .	"Conterosso" . .	12	75
4th and 5th July .	"Naldera" . .	Between 16 and 15	Between 61 and 55
10th July . .	"Nagina" . .	18	71
11th July . .	"Carthage" . .	16	62
12th July . .	"Carthage" . .	16	58
19th July . .	"Wildenfels" . .	15	58
3rd August . .	"Stolzenfels" .	12	57
22nd October .	"Dorsetshire" . .	16	32
24th and 25th November.	"Fager" . . .	7	79

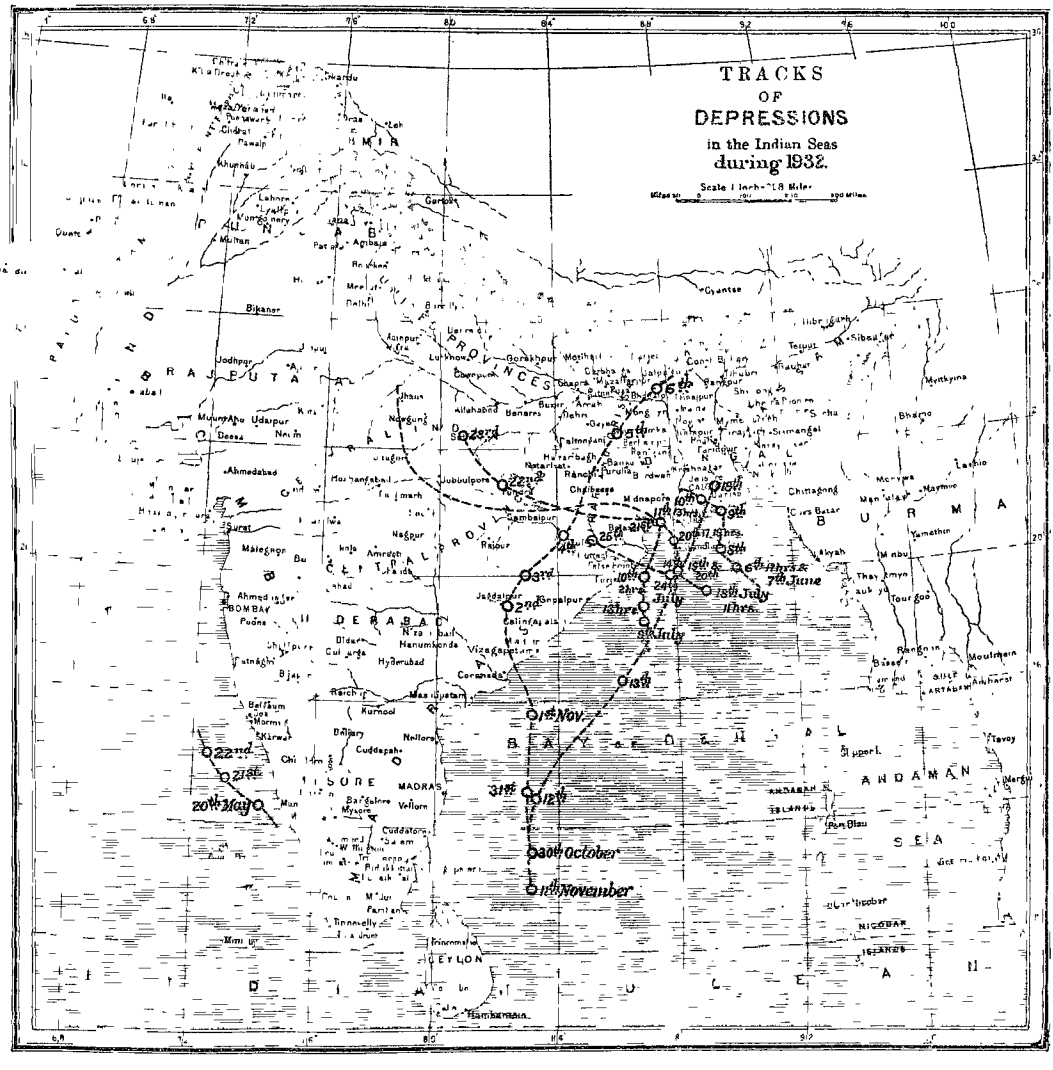
MGIPC—M—VIII-3-178—13-3-34—430.



Reg. No. 2560 B.P.I.

The track in the Arabian Sea of the storm of October 1932, which lies outside the boundaries of the map, is defined by the following positions:-

	Lat.	Long.		Lat.	Long.		Lat.	Long.		Lat.	Long.
19th October	15-10,	63-0.	20th October	15-20,	62-30.	21st October	15-30,	62-0.	22nd October	16-0,	61-30.


TRACKS
OF
DEPRESSIONS
in the Indian Seas
during 1932.
Scale 1 inch = 128 Miles
RAJPUTANA
CENTRAL PROVINCES
DERABAD
MADRAS
MYSORE
BOMBAY
BURMA
BAY OF BENGAL
ANDAMAN ISLANDS
NICOBAR ISLANDS
ARABIAN SEA
CEYLON
INDIA
Delhi
Jodhpur
Udaipur
Bikaner
Ahmedabad
Surat
Nagpur
Jubbulpore
Allahabad
Benares
Lucknow
Gorakhpur
Calcutta
Jaipur
Amritsar
Lahore
Multan
Karachi
Hyderabad
Bombay
Poona
Madras
Vizagapatam
Cuttack
Akyab
Rangoon
Moulmein
Tavoy
Mergui
Hambantota
Trincomalee
Tuticorin
Cuddapah
Bellary
Kurnool
Raipur
Sambalpur
Jagdalpur
Chanda
Nagpur
Chhindwara
Mandla
Jubbulpore
Gambhir
Rewa
Allahabad
Benares
Gorakhpur
Lucknow
Bahraich
Pilibhit
Shahjahanpur
Fatehgarh
Cawnpore
Etawah
Agra
Muttra
Delhi
Ambala
Amritsar
Lahore
Multan
Montgomery
Lyallpur
Sargodha
Jhelum
Rawalpindi
Peshawar
Kohat
Parachinar
Quetta
Sibi
Jacobabad
Hyderabad
Mirpur Khas
Umarkot
Jodhpur
Udaipur
Deesa
Nasirabad
Ajmer
Jaipur
Alwar
Bikaner
Ganganagar
Hissar
Rohtak
Karnal
Ambala
Simla
Dharmsala
Chamba
Kangra
Dalhousie
Srinagar
Leh
Gilgit
Kashgar
Yarkand
Khotan
Leh
Kargil
Skardu
Gartok
Chumbi
Gyantse
Shigatse
Lhasa
Tezpur
Dibrugarh
Sibsagar
Myitkyina
Bhamo
Lashio
Maymyo
Mandalay
Meiktila
Yenangyaung
Magwe
Minbu
Thayetmyo
Prome
Henzada
Bassein
Akyab
Sittang
Pegu
Insein
Thaton
Tavoy
Mergui
Victoria Point
Port Blair
Car Nicobar
Campbell Bay
Great Nicobar
Kamorta
Nancowry
Chittagong
Cox's Bazar
Comilla
Dacca
Mymensingh
Sylhet
Shillong
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GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW

ANNUAL SUMMARY FOR 1932

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PART E.

SEISMIC RECORDS.

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Published by Authority of the Government of India

UNDER THE DIRECTION OF

S. K. BANERJI, D.Sc.

Offg. *Director General of Observatories.*

134763

PUBLISHED BY MANAGER OF PUBLICATIONS, DELHI
PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, NEW DELHI
1934

Price Rs. 5 As. 10 or 9s. 3d.

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STATION—AGRA.

φ=27° 8′ 15″ N ; λ 78° 0′ 45″ E ; h=163 metres. *Subsoil*—Indo-Gangetic Alluvium.

Apparatus.—One Omori-Ewing Horizontal Pendulum Seismograph giving A_N (Mass 50 Kg.).

One Milne-Shaw Seismograph giving A_E. (Damping ratio 20 : 1).

TABLE E 1.

	V	To	
Omori—A_N	28·0	29·4	
Milne-Shaw—A_E	250	12	From 1st January 1932 to 8th January 1932.
	630	12	From 15th January 1932 to 12th April 1932.
	773	12	From 14th April 1932 to 22nd August 1932.
	783	12	From 25th August 1932 to 31st December 1932.

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Jan. 3rd	A_E P	7 54 9*	...	...	...	Slight shock.
	S	7 57 42*	...	...	...	
	Le	7 59 27*	...	...	...	
	M	8 2 45*	15	...	13	
	F	8 37 12*	...	...	...	
,, 4th	A_N e	11 54 48*	...	...	...	Do.
	eS	11 56 10*	...	...	...	
	Fe	12 18 35*	...	...	...	
,, 5th	A_N Pe	5 29 11*	...	...	...	Do.
	Se	5 31 47*	...	...	...	
	Le	5 32 42*	...	...	...	
	Fe	5 40 15*	...	...	...	
,, 9th	A_N P	10 33 25*	...	...	...	Do.
	Sl	10 42 59*	...	...	...	
	eL	10 57 25*	...	...	...	
	Fe	12 21 13*	...	...	...	
,, 13th	A_E P	16 38 30*	...	...	...	Do.
	Se	16 45 45*	...	...	...	
	L	16 55 37*	...	...	...	
	F	17 45 30*	...	...	...	
,, 24th	A_E P	3 57 27	...	...	...	Do.
	Sl	4 8 29	...	...	...	
	L	4 31 3	...	...	...	
,, 24th	A_N e	4 8 25	...	...	...	Do.
	Fe	5 34 3	...	...	...	
1932.		H. M. S.				
Jan. 24th	A_E P	8 44 37	...	...	...	Slight shock.
	Fe	9 4 37	...	...	...	
,, 24th	A_N eP	8 44 39	...	...	...	Do.
	Se	8 45 52	...	...	...	
	Le	8 46 17	...	...	...	
	Fe	8 54 57	...	...	...	
,, 29th	A_E iP	13 53 30	...	...	...	Moderate shock.
	Fe	17 29 12	...	...	...	
,, 29th	A_N P	13 53 45	...	...	...	Do.
	iS	14 3 40	...	...	...	
	Fe	17 20 58	...	...	...	
,, 30th	A_E P	3 17 12	...	...	...	Slight shock.
	Si	3 27 20	...	...	...	
	eF	4 48 36	...	...	...	
,, 31st	A_E e	12 16 58	...	...	...	Do.
	F	12 42 48	...	...	...	
,, 31st	A_E P	16 13 29	...	...	...	Do.
	S	16 23 41	...	...	...	
	Fe	17 32 42	...	...	...	
,, 31st	A_E e	21 46 45	...	...	...	Feeble shock.
	F	22 10 41	...	...	...	
1932.		H. M. S.				
Feb. 3rd	A_E P	6 37 5	...	...	...	Distant moderate shock.
	eS	6 50 35	...	...	...	
	Le	7 30 48	...	...	...	
	M	7 37 35	21	...	14	
	Fe	9 0 9	...	...	...	
,, 3rd	A_N e	6 37 16	...	...	...	Slight shock.
	Fe	8 39 48	...	...	...	
,, 5th	A_E iP	13 47 19	...	...	...	Do.
	S	13 50 15	...	...	...	
	Fe	14 39 3	...	...	...	
,, 5th	A_N eP	13 47 28	...	...	...	Do.
	S	13 50 15	...	...	...	
	Le	13 51 27	...	...	...	
	F	14 16 48	...	...	...	
,, 6th	A_E e	5 49 58	...	...	...	Do.
	F	6 23 23	...	...	...	
,, 11th	A_E P	11 54 16	...	...	...	Do.
	F	12 51 44	...	...	...	
,, 12th	A_E iP	1 3 45	...	...	...	Moderate shock.
	S	1 8 14	...	...	...	
,, 12th	A_N eP	1 3 50	...	...	...	Do.
	S	1 8 20	...	...	...	
	Le	1 11 2	...	...	...	
	F	Lost while changing drum.				

* Uncertain by ± 30 seconds. Time interval between phases of the same record is, however, accurate.

TABLE E 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Feb. 14th	A_E e	20 33 11	...	...	...	Feeble shock.
	F	20 47 58	...	...	...	
,, 14th	A_E P	23 21 55	...	...	...	Moderate shock.
	S	23 28 38	...	...	...	
	L	23 34 56	...	...	...	
	F	Lost in shifting time.				
,, 14th	A_N P	23 22 12	...	...	...	Slight shock.
	S	23 28 50	...	...	...	
	Le	23 34 48	...	...	...	
,, 15th	F	0 18 50	...	...	...	
,, 15th	A_E e	9 49 10	...	...	...	Feeble shock.
	F	10 9 48	...	...	...	
,, 16th	A_E eP	14 7 48	...	...	...	Slight shock.
	Se	14 17 12	...	...	...	
	F	16 22 59	...	...	...	
,, 21st	A_E e	12 50 31	...	...	...	Feeble shock
	F	Mixed up with the next shock.				
,, 21st	A_E e	13 26 47	...	...	...	Slight shock
	L	13 33 56	...	...	...	
	M	13 36 33	17	...	10	
	F	Mixed up with the next shock				
,, 21st	A_E e	14 21 30	...	...	...	Tremors.
	F	14 37 9	...	...	...	
,, 23rd	A_E P	0 33 0	...	...	...	Distant moderate shock.
	Si	0 42 24	...	...	...	
	Li	0 59 8	...	...	...	
	M	1 2 15	25	...	33	
,, 23rd	A_N P	0 33 3	...	...	...	Slight shock.
	S	0 42 32	...	...	...	
	Le	0 59 16	...	...	...	
	F	Lost while changing drum.				
,, 23rd	A_E e	20 24 20	...	...	...	Do.
	S	20 34 33	...	...	...	
	Le	20 54 17	...	...	...	
	F	21 50 41	...	...	...	
,, 29th	A_E Pe	22 59 6	...	...	...	Tremors.
	Fe	23 8 3	...	...	...	
Mar. 4th	A_E iP	23 28 31	...	...	...	Slight shock.
,, 5th	A_E Fe	0 15 12	...	...	...	
1932.		H. M. S.				
Mar. 4th	A_N P	23 22 31	...	...	...	Slight shock.
	S	23 23 48	...	...	...	
	Li	23 24 37	...	...	...	
	F	23 56 4	...	...	...	
,, 6th	A_E iP	0 20 56*	...	...	...	Do.
	F	1 1 5*	...	...	...	
,, 6th	A_E P	21 47 17*	...	...	...	Do.
	iS	21 50 51*	...	...	...	
	L	21 52 41*	...	...	...	
	Fe	22 25 28*	...	...	...	
,, 7th	A_E e	2 52 56*	...	...	...	Very feeble shock.
	eL	2 55 24*	...	...	...	
	F	3 4 26*	...	...	...	
,, 8th	A_E e	3 22 52*	...	...	...	Slight shock.
	S	3 32 58*	...	...	...	
	F	Mixed up with the next shock.				
,, 8th	A_E P	4 40 58*	...	...	...	Do.
	S	4 50 40*	...	...	...	
	Le	5 9 57*	...	...	...	
	F	5 58 46*	...	...	...	
,, 8th	A_E e	18 18 56*	...	...	...	Feeble shock.
	F	20 24 39*	...	...	...	
,, 14th	A_E e	23 2 11	...	...	...	Slight shock.
	F	Lost in shifting time.				
,, 15th	A_E P	4 42 48	...	...	...	Do.
	eS	4 51 24	...	...	...	
	Fe	6 27 15	...	...	...	
,, 15th	A_E e	6 40 47	...	...	...	Feeble shock.
	eF	7 4 32	...	...	...	
,, 15th	A_E e	7 55 35	...	...	...	Tremors.
	F	8 28 43	...	...	...	
,, 15th	A_E P	10 23 42	...	...	...	Slight shock.
	S	10 28 30	...	...	...	
	eL	10 33 14	...	...	...	
	M	10 35 58	12	...	4	
	Fe	11 1 15	...	...	...	
,, 16th	A_E e	6 18 50	...	...	...	Tremors.
	F	6 24 31	...	...	...	
1932.		H. M. S.				
Mar. 18th	A_E P	5 24 44	...	...	...	Slight shock
	Si	5 31 27	...	...	...	
	eL	5 37 27	...	...	...	
	F	7 6 42	...	...	...	
,, 19th	A_E P	11 10 20	...	...	...	Do.
	S	11 18 53	...	...	...	
	eF	14 0 58	...	...	...	
,, 19th	A_E P	23 21 50	...	...	...	Very feeble shock.
	eS	43 30 54	...	...	...	
,, 20th	Fe	0 56 17	...	...	...	
,, 24th	A_E iP	16 11 14	...	...	...	Slight shock.
	Fe	17 55 27	...	...	...	
,, 24th	A_N P	16 11 21	...	...	...	Do.
	S	16 13 27	...	...	...	
	eL	16 14 52	...	...	...	
,, 25th	A_E P	4 31 45	...	...	...	Do.
	Fe	5 4 22	...	...	...	
,, 25th	A_N P	4 31 48	...	...	...	Do.
	S	4 33 33	...	...	...	
	Le	4 34 4	...	...	...	
	Fe	4 46 57	...	...	...	
,, 26th	A_E P	0 7 3	...	...	...	Shock of great intensity.
	S	0 17 13	...	...	...	
	L	0 36 36	...	...	...	
	F	3 35 2	...	...	...	
,, 26th	A_N e	0 10 47	...	...	...	Moderate shock.
	M	0 49 44	24	105	...	
	F	2 44 15	...	...	...	
,, 26th	A_E P	7 14 34	...	...	...	Slight shock.
	S	7 19 21	...	...	...	
	L	7 22 41	...	...	...	
	F	8 14 59	...	...	...	
,, 26th	A_N e	7 14 37	...	...	...	Feeble shock.
	eF	8 3 13	...	...	...	
,, 26th	A_E iP	10 2 5	...	...	...	Moderate shock.
	F	13 13 25	...	...	...	
,, 26th	A_N Pe	10 2 7	...	...	...	Do.
	Si	10 10 6	...	...	...	
	Le	10 22 0	...	...	...	
	M	10 28 27	...	39	...	
	F	11 29 4	...	...	...	

*Uncertain by ± 30 seconds. Time interval between phases of the same record is, however, accurate.

TABLE E 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_E					
Mar. 27th	iP	8 47 36	...	...	...	Slight shock.
	S	8 50 2	...	...	...	
	F	9 32 12	...	...	...	
	A_N					
,, 27th	S	8 50 3	...	...	...	Do.
	L	8 51 51	...	...	...	
	A_E					
,, 28th	iP	0 48 12	...	...	...	Moderate shock.
	S	0 49 22	...	...	...	
	F	3 7 12	...	...	...	
	A_E					
,, 30th	Le	15 13 47	...	...	...	Tremors.
	Fe	16 16 32	...	...	...	
	A_E					
April 3rd	e	20 58 32	...	...	...	Feeble shock.
	F	23 7 20	...	...	...	
	A_E					
,, 4th	iP	19 25 8	...	...	...	Slight shock.
	eS	19 34 9	...	...	...	
	L	19 46 58	...	...	...	
	M	19 50 5	14	...	7	
	F	21 2 43	...	...	...	
	A_E					
,, 6th	P	9 17 46	...	...	...	Feeble shock.
	S	9 22 56	...	...	...	
	F	10 16 8	...	...	...	
	A_E					
,, 18th	e	11 26 27	...	...	...	Slight shock.
	F	12 54 58	...	...	...	
	A_E					
,, 20th	e	20 11 23	...	...	...	Very feeble shock.
	Fe	20 27 41	...	...	...	
	A_E					
,, 22nd	P	5 5 38	...	...	...	Slight shock.
	Fe	6 53 54	...	...	...	
	A_E					
,, 29th	P	17 39 32	...	...	...	Feeble shock.
	eS	17 46 26	...	...	...	
	F	18 28 54	...	...	...	
	A_E					
,, 29th	P	18 30 24	...	...	...	Slight shock.
	S	18 40 7	...	...	...	
	F	19 51 42	...	...	...	
	A_E					
,, 30th	P	10 56 20	...	...	...	Do.
	F	11 20 47	...	...	...	
	A_E					
May 11th	P	7 3 2	...	...	...	Very feeble shock.
	S	7 10 38	...	...	...	
	F	8 3 42	...	...	...	
1932.		H. M. S.				
	A_E					
May 12th	e	20 9 55	...	...	...	Tremors.
	F	20 16 22	...	...	...	
	A_E					
,, 14th	iP	13 20 18	..	...	...	Shock of very great intensity.
	A_N					
,, 14th	P	13 20 22	...	...	...	Do.
	iS	13 27 41	...	...	...	
	M	?	15	827	...	Motion of recording pen restricted due to side-stops at intervals for about 25 minutes.
	Fe	17 4 59	...	...	...	
	A_E					
,, 17th	e	13 3 35	...	...	...	Tremors.
	F	13 41 5	...	...	...	
	A_E					
,, 18th	eP	19 5 19	...	...	...	Slight shock.
	eS	19 14 49	...	...	...	
	L	Uncertain	...	...	...	
	M	19 42 18	18	...	5	
	eF	21 7 50	...	...	...	
	A_N					
,, 21st	eP	10 30 45	...	...	...	Distant moderate shock.
	S	10 44 36	...	...	...	
	Fe	12 59 45	...	...	...	
	A_N					
,, 26th	e	16 33 1	...	...	...	Do.
	F	19 0 53	...	...	...	
	A_N					
June 3rd	Pe	10 56 18	...	...	...	Shock of very great intensity.
	Se	11 9 26	...	...	...	
	L	11 41 16	...	...	...	
	M	?	?	7843	...	Motion of recording pen restricted due to side-stops for about 11¼ minutes.
	F	15 34 58	...	...	...	
	A_E					
,, 5th	e	12 45 30	...	...	...	Tremors.
	F	12 52 43	...	...	...	
	A_N					
,, 13th	e	21 9 48	...	...	...	Slight shock.
	eF	22 10 17	...	...	...	
	A_E					
,, 14th	P	11 29 21	...	...	...	Do.
	S	11 37 10	...	...	...	
	L	11 49 54	...	...	...	
	M	11 52 55	9	...	3	
	F	12 20 27	...	...	...	
1932.		H. M. S.				
	A_E					
June 16th	P	1 24 55	...	...	...	Moderate shock.
	iS	1 29 48	...	...	...	
	F	3 14 22	...	...	...	
	A_N					
,, 16th	P	1 24 58	...	...	...	Slight shock.
	Si	1 29 56	...	...	...	
	F	2 26 42	...	...	...	
	A_N					
,, 18th	P	10 31 54	...	...	...	Shock of great intensity.
	Se	10 44 36	...	...	...	
	M	11 37 14 (?)	12 (?)	7843	...	Motion of recording pen restricted due to side-stops for about one minute.
	F	14 11 18	...	...	...	
	A_E					
,, 21st	e	23 11 7	...	...	...	Tremors.
	F	23 37 52	...	...	...	
	A_E					
,, 22nd	P	18 19 29	...	...	...	Moderate shock.
	L	14 2 28	...	...	...	
	F	15 46 49	...	...	...	
	A_N					
,, 22nd	e	18 21 26	...	...	...	Do.
	Se	13 34 32	...	...	...	
	F	15 39 34	...	...	...	
	A_E					
,, 26th	P	19 29 25	...	...	...	Slight shock.
	Se	19 37 39	...	...	...	
	Le	19 51 3	...	...	...	
	F	20 32 53	...	...	...	
	A_E					
July 5th	e	11 5 31	...	...	...	Very feeble shock.
	F	12 1 40	...	...	...	
	A_E					
,, 10th	eP	0 57 46	...	...	...	Slight shock.
	S	1 4 30	...	...	...	
	L	1 12 36	...	...	...	
	M	1 17 26	15	...	4	
	F	1 42 41	...	...	...	
	A_E					
,, 10th	eP	7 54 45	...	...	...	Do
	S	8 2 40	...	...	...	
	Le	8 15 43	...	...	...	
	M	8 22 0	17	...	4	
	A_E					
,, 16th	P	21 6 52	...	...	...	Slight shock.
	L	21 19 21	...	...	...	

TABLE E 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
July 20th	A_E e	20 28 12	...	...	...	Tremors.
	eF	21 27 32	...	...	...	
,, 30th	A_E e	12 30 25	...	...	...	Do.
	Fe	13 2 17	...	...	...	
Aug. 1st	A_E e	3 30 41	...	...	...	Do.
	F	3 45 15	...	...	...	
,, 2nd	A_E e	4 35 48	...	...	...	Very feeble shock.
	F	5 13 36	...	...	...	
,, 12th	A_E Pi	3 36 32	...	...	...	Distant moderate shock.
	Si	3 46 36	...	...	...	
	Le	4 6 26	...	...	...	
	M	4 18 10	...	...	...	
,, 14th	A_E iP	4 43 14	...	...	...	Shock of great intensity.
	F	Probably mixed up with the next shock.				
,, 14th	A_N P	4 43 18	...	...	...	Do.
	S	4 45 57	...	...	...	
	M	4 48 53	...	718(?)	...	
	eF	6 36 56	...	...	...	
,, 14th	A_E P	7 14 24	...	...	...	Slight shock.
	eF	7 43 25	...	...	...	
,, 14th	A_N e	7 14 32	...	...	...	Very feeble shock.
	F	7 36 33	...	...	...	
,, 14th	A_E P	12 41 28	...	...	...	Slight shock.
	Fe	13 37 39	...	...	...	
,, 14th	A_N e	12 41 45	...	...	...	Very feeble shock.
	F	13 2 56	...	...		
,, 16th	A_E e	21 58 18	...	...	...	Tremors.
	F	22 10 59	...	...	..	
,, 21st	A_E e	4 23 11	...	...	..	Do.
	Fe	5 9 49	...	...	..	
Sept. 3rd	A_E e	12 8 21	...	...	...	Slight shock.
	F	13 35 11	...	...	...	
,, 8th	A_N e	7 33 21	...	...	...	Do.
	F	7 52 12	...	...	...	
1932.		H. M. S.				
Sept. 11th	A_E e	14 17 31*	..	...	...	Slight shock.
	F	15 9 59*	...	...	...	
,, 23rd	A_N P	14 31 7	...	...	...	Do.
	S	Uncertain.				
	eL	14 37 59	...	...	...	
	F	15 26 52	...	...	...	
,, 26th	A_E iP	19 29 0	...	...	...	Moderate shock.
	eP	22 57 6	...	...	...	
,, 26th	A_N eP	19 29 42	...	...	...	Do.
	Si	19 36 30	...	...	...	
	L	19 44 59	...	...	...	
	M	19 49 19	18	118	...	
	Fe	22 17 39	...	...	...	
,, 29th	A_E P	4 5 45	...	...	...	Slight shock.
	F	5 38 51	...	...	...	
,, 29th	A_E P	17 56 38	...	...	...	Do.
	S	18 4 54	...	...	...	
	L	18 18 42	...	...	...	
	Fe	19 57 54	...	...	...	
Oct. 2nd	A_E P	3 18 49	...	...	...	Moderate shock.
	M	4 19 41	...	...	...	
	F	5 48 43	...	...	...	
,, 2nd	A_N e	3 26 55	...	...	...	Slight shock.
	F	4 54 2	...	...	...	
,, 9th	A_E e	12 57 21	...	...	...	Feeble shock.
	F	13 55 14	...	...	...	
,, 16th	A_E e	12 20 38	...	...	...	Slight shock.
	Le	12 49 43	...	...	...	
	F	15 17 4	...	...	...	
,, 16th	A_N e	12 20 39	...	...	...	Do.
	M	13 2 27	21	80	...	
	F	13 41 23	...	...	...	
,, 18th	A_E e	4 18 30	...	...	...	Tremors.
	F	4 59 30	...	...	...	
,, 23rd	A_E P	21 35 24	...	...	...	Slight shock.
	Le	21 50 30	...	...	...	
	F	22 57 56	...	...	...	
,, 28th	A_E e	11 20 46	...	...	...	Tremors.
	F	12 0 44	...	...	...	
1932.		H. M. S.				
Oct. 29th	A_E P	11 11 54	...	...	...	Slight shock.
	F	12 42 54	...	...	...	
,, 30th	A_E P	20 59 32	...	...	...	Do
	L	21 28 46	...	...	...	
Nov. 9th	A_E P	18 33 15	...	...	...	Do.
	F	19 8 5	...	...	...	
,, 9th	A_N Pe	18 33 27	...	...	...	Do.
	Fe	19 6 49	...	...	...	
,, 18th	A_E P	4 55 16	...	...	...	Moderate shock.
	eF	6 20 59	...	...	...	
,, 18th	A_N Pi	4 55 1 6	...	...	...	Do.
	Si	5 1 49	...	...	...	
	eL	5 10 29	...	...	...	
	Fe	7 0 6	...	...	...	
,, 26th	A_E e	4 33 18	...	...	...	Slight shock.
	eF	6 2 32	...	...	...	
,, 29th	A_E Pe	11 31 2	...	...	...	Distant moderate shock.
	S	11 45 2	...	...	...	
	L	12 23 34	...	...	...	
	F	13 45 40	...	...	...	
,, 30th	A_N e	16 59 1	...	...	...	Tremors.
	F	17 7 53	...	...	...	
Dec. 4th	A_E P	18 19 55	...	...	...	Shock of great intensity.
	F	Mixed up with the next shock.				
,, 4th	A_N P	8 19 56	...	...	...	Do.
	S	8 26 55	...	...	...	
	L	8 35 52	...	...	...	
	M	8 41 25	26	455	...	
,, 11th	A_E P	4 31 10*	...	...	...	Slight shock.
,, 15th	A_E Pe	19 41 14*	...	...	...	Do.
	L	19 58 44*	...	...	...	
	M	20 1 38*	...	...	...	
,, 21st	A_E P	6 29 54*	...	...	...	Shock of great intensity.
	Se	6 41 16*	..	...	...	
	Le	7 5 27*	...	...	...	
	F	9 36 52*	...	...	...	

* Uncertain by ± 30 seconds. Time interval between phases of the same record is, however, accurate.

TABLE E 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_N					
Dec. 21st	e	6 38 56*	...	...	...	Moderate shock.
	F	9 12 28*	...	...	...	
	A_E					
,, 24th	S	4 23 16*	...	...	...	Slight shock.
	L	4 25 30*	...	...	...	
	F	5 2 34*	...	...	...	
	A_E					
,, 24th	Pe	5 15 57*	...	...	...	Do.
	eS	5 18 54*	...	...	...	
	L	5 20 34*	...	...	...	
	A_E					
,, 24th	P	6 41 43*	...	...	...	Do.
	F	Uncertain.				
	A_E					
,, 25th	iP	2 8 41*	...	...	...	Shock of very great intensity
	F	6 6 9*	...	...	...	
1932.		H. M. S.				
	A_N					
Dec. 25th	iP	2 8 37*	...	...	...	Shock of very great intensity.
	Si	2 12 24*	...	...	...	
	L	2 14 51*	...	...	...	
	M	?	?	7893	...	Motion of recording pen restricted due to side-stops for about 12 minutes.
	A_E					
	e	6 12 39*	...	...	...	Feeble shock.
	F	6/43 39*	...	...	...	
	A_E					
,, 25th	e	8 3 41*	...	...	...	Do.
	F	8 34 24*	...	...	...	
	A_E					
,, 25th	e	12 30 28*	...	...	...	Do.
	F	13 4 25*	...	...	...	
1932.		H. M. S.				
	A_E					
Dec. 26th	e	8 12 3*	...	...	...	Feeble shock.
	Fe	8 33 23*	...	...	...	
	A_E					
,, 26th	e	9 9 25*	...	...	...	Do.
	Le	9 12 42*	...	...	...	
	M	9 14 12*	...	...	...	
	F	9 26 22*	...	...	...	
	A_E					
,, 26th	e	21 21 55*	...	...	...	Do.
	F	21 56 14*	...	...	...	
	A_E					
,, 26th	e	21 26 3*	...	...	...	Do.
	F	21 48 23*	...	...	...	
	A_E					
,, 31st	P	6 42 6*	...	...	...	Slight shock.
	S	6 50 56*	...	...	...	
	Le	7 6 10*	...	...	...	

* Uncertain by ±30 seconds. Time interval between phases of the same record is, however, accurate.

G. CHATTERJEE,

Meteorologist-in-charge, Upper Air Observatory, Agra.

STATION—BOMBAY (COLABA).

φ=18° 53′ 36″ N ; λ=72° 48′ 54″ E ; *h*=6 Metres. *Subsoil*—Trap rock.

Apparatus.—1. Milne-Shaw Seismograph (N-S Component). *Damping ratio*—20 : 1.
2. Milne-Shaw Seismograph (E.-W Component). *Damping ratio*—21 : 1 (in the underground constant temperature room).

TABLE E 2.

Magnification : A_N=250 ; A_E=350
Period : A_N=12 Secs ; A_E=12 Secs.

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Jan. 1st	A_N P	21 4 24	...	...	...	Very feeble shock.
	F	21 44 0	...	...	...	
,, 1st	A_E P	21 4 24	...	...	...	Do.
	F	21 44 0	...	...	...	
,, 2nd	A_N P	23 53 16	...	...	...	Do.
,, 3rd	F	0 37 0	...	...	...	
,, 2nd	A_E P	23 53 16	...	...	...	Do.
,, 3rd	F	0 37 0	...	...	...	
,, 3rd	A_N P	7 55 53	...	...	...	
	S	8 0 26	...	...	...	
	L	8 3 17	...	...	...	
	M	8 4 1	8	4	...	
	F	8 41 0	...	...	...	
,, 3rd	A_E P	7 55 53	...	...	...	
	S	8 0 26	...	...	...	
	L	8 3 17	...	...	...	
	M	8 4 9	7	...	2	
	F	8 52 0	...	...	...	
,, 4th	A_N P	11 59 41	...	...	...	
	S	12 1 11	...	...	...	
	L	12 1 54	...	...	...	
	M	12 2 50	8	7	...	
	F	12 37 0	...	...	...	
,, 4th	A_E P	11 59 41	...	...	...	
	S	12 1 11	...	...	...	
	L	12 1 54	...	...	...	
	M	12 3 1	7	...	4	
	F	12 37 0	...	...	...	
,, 5th	A_N Pe	0 45 11	...	...	...	Very feeble shock.
	F	1 37 0	...	...	...	
,, 5th	A_E Pe	0 45 11	...	...	...	Do.
	F	1 27 0	...	...	...	
1932.		H. M. S.				
Jan. 5th	A_N Pe	2 14 20	...	...	...	Distant feeble shock.
	F	4 22 0	...	...	...	
,, 5th	A_E Pe	2 14 20	...	...	...	Do.
	F	4 42 0	...	...	...	
,, 5th	A_N P	5 30 24	...	...	...	Very feeble shock.
	F	Mixed in the next shock.				
,, 5th	A_E P	5 30 24	...	...	...	Do.
	F	Mixed in the next shock.				
,, 5th	A_N Pe	5 36 14	...	...	...	Do.
	S	5 37 41	...	...	...	
	F	6 12 0	...	...	...	
,, 5th	A_E Pe	5 36 14	...	...	...	Do.
	S	5 37 41	...	...	...	
	F	6 13 0	...	...	...	
,, 6th	A_N P	17 2 15	...	...	...	Feeble shock.
	F	18 11 0	...	...	...	
,, 6th	A_E P	17 2 15	...	...	...	Do.
	F	18 16 0	...	...	...	
,, 8th	A_N P	5 52 24	...	...	...	
	M	6 1 23	8	2	...	
	F	6 28 0	...	...	...	
,, 8th	A_E P	5 52 24	...	...	...	
	M	6 0 58	8	...	2	
	F	6 33 0	...	...	...	
,, 9th	A_N P	10 33 38	...	...	...	
	S	10 43 17	...	...	...	
	L	11 0 48	...	...	...	
	M	11 1 22	11	8	...	
	F	13 4 0	...	...	...	
Jan. 9th	A_E P	10 33 38	...	...	...	
	S	10 43 17	...	...	...	
	L	11 0 48	...	...	...	
	M	11 2 50	14	...	7	
	F	13 50 0	...	...	...	
,, 10th	A_N P	1 8 9	...	...	...	Very feeble shock.
	F	1 43 0	...	...	...	
10th	A_E P	1 8 9	...	...	...	Do.
	F	1 43 0	...	...	...	
,, 13th	A_N P	6 59 44	...	...	...	Do.
	F	7 18 0	...	...	...	
,, 13th	A_E	Instrument out of adjustment.				
,, 13th	A_N P	8 15 29	...	...	...	Do.
	F	8 28 0	...	...	...	
,, 13th	A_E P	8 15 29	...	...	...	Do.
	F	8 28 0	...	...	...	
,, 13th	A_N Pe	16 28 6	...	...	...	Distant shock.
	M	17 5 11	21	6	...	
	F	17 49 0	...	...	...	
,, 13th	A_E Pe	16 28 6	...	...	...	Do.
	M	17 7 50	18	...	5	
	F	17 59 0	...	...	...	
,, 17th	A_N Pe	7 58 42	...	...	...	Distant feeble shock.
	F	10 38 0	...	...	...	
,, 17th	A_E P	7 58 42	...	...	...	Do.
	F	10 27 9	...	...	...	
,, 18th	A_N P	20 35 16	...	...	...	Do.
	F	21 43 0	...	...	...	
,, 18th	A_E P	20 35 16	...	...	...	Do.
	F	21 43 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A N.	Amplitude (μ) A E.	Remarks
1932.		H. M. S.				
Jan. 19th	A_N P	13 43 0	...	...	...	Very feeble shock.
	S	13 44 42	...	...	...	
	L	13 45 18	...	...	...	
	F	14 0 0	...	...	...	
	A_E P	13 43 0	...	...	...	Do.
	S	13 44 42	...	...	...	
	L	13 45 18	...	...	...	
	F	14 0 0	...	...	...	
,, 20th	A_N P	2 49 51	...	...	...	Distant shock.
	S	3 4 9	...	...	...	
	L	3 46 44	...	...	...	
	F	4 28 0	...	...	...	
	A_E P	2 49 51	...	...	...	Do.
	S	3 4 9	...	...	...	
	L	3 46 44	...	...	...	
	F	4 28 0	...	...	...	
,, 21st	AN	Record disturbed by insect.				
,, 21st	A_E P	13 54 13	...	...	...	Feeble local shock.
	S	13 55 9	...	...	...	
	L	13 55 32	...	...	...	
	F	14 16 0	...	...	...	
,, 22nd	A_N P	0 54 42	...	...	...	Very feeble shock.
	S	0 59 37	...	...	...	
	F	1 35 0	...	...	...	
,, 22nd	A_E P	0 54 42	...	...	...	Do.
	S	0 59 37	...	...	...	
	F	1 35 0	...	...	...	
,, 23rd	A_N P	17 25 51	...	...	...	Feeble shock.
	S	17 27 12	...	...	...	
	L	17 27 43	...	...	...	
	F	17 45 0	...	...	...	
,, 23rd	A_E P	17 25 51	...	...	...	Do.
	S	17 27 12	...	...	...	
	L	17 27 43	...	...	...	
	M	17 27 48	...	...	...	
	F	17 56 0	...	...	...	
,, 24th	A_N P	3 58 13	...	...	...	
	S	4 8 49	...	...	...	
	L	4 31 6	...	...	...	
	M	4 49 21	16	4	...	
	F	6 17 0	...	...	...	
1932.		H. M. S.				
Jan. 24th	A_E P	3 58 13	...	...	...	
	S	4 8 49	...	...	...	
	L	4 31 6	...	...	...	
	M	4 48 17	19	...	7	
	F	6 47 0	...	...	...	
,, 24th	A_N P	8 48 53	...	...	...	
	S	8 51 4	...	...	...	
	L	8 51 54	...	...	...	
	F	9 15 0	...	...	...	
,, 24th	A_E P	8 48 53	...	...	...	Do.
	S	8 51 4	...	...	...	
	L	8 51 54	...	...	...	
	F	9 16 0	...	...	...	
,, 25th	A_N P	2 7 3	...	...	...	
	F	3 17 0	...	...	...	
,, 25th	A_E P	2 7 3	...	...	...	Do.
	F	3 48 0	...	...	...	
,, 26th	A_N P	5 4 2	...	...	...	
	S	5 5 41	...	...	...	
	L	5 6 13	...	...	...	
	F	5 29 0	...	...	...	
,, 26th	A_E P	5 4 2	...	...	...	
	S	5 5 41	...	...	...	
	L	5 6 13	...	...	...	
	F	5 29 0	...	...	...	
,, 27th	A_N e	19 55 0	...	...	...	Tremors.
	f	20 48 0	...	...	...	
,, 27th	A_E e	19 55 0	...	...	...	Do.
	f	20 48 0	...	...	...	
,, 29th	A_N P	13 53 46	...	...	...	
	S	14 4 3	...	...	...	
	L	14 25 22	...	...	...	
	M	14 43 26	19	7	...	
	F	17 45 0	...	...	...	
,, 29th	A_E P	13 53 46	...	...	...	
	S	14 4 3	...	...	...	
	L	14 25 22	...	...	...	
	M	14 33 43	22	...	14	
	F	18 48 0	...	...	...	
Jan. 27th	A_N Pe	19 23 34	...	...	...	Very feeble shock.
	F	19 34 0	...	...	...	
,, 27th	A_E Pe	19 23 34	...	...	...	Do.
	F	19 41 0	...	...	...	
,, 30th	A_N P	3 17 29	...	...	...	Feeble shock.
	S	3 27 49	...	...	...	
	L	3 47 3	...	...	...	
	F	5 13 0	...	...	...	
,, 30th	A_E P	3 17 29	...	...	...	Do.
	S	3 27 49	...	...	...	
	L	3 47 3	...	...	...	
	F	5 30 0	...	...	...	
,, 30th	A_N P	7 25 21	...	...	...	Very feeble shock.
	F	8 19 0	...	...	...	
,, 30th	A_E P	7 25 21	...	...	...	Do.
	F	Mixed with succeeding lines due to congestion.				
,, 30th	A_N P	19 10 51	...	...	...	Feeble shock.
	F	20 20 0	...	...	...	
,, 30th	A_E P	19 10 51	...	...	...	Do.
	F	20 20 0	...	...	...	
,, 30th	A_N e	21 12 0	...	...	...	Tremors.
	f	22 18 0	...	...	...	
,, 30th	A_E e	21 12 0	...	...	...	Do.
	f	22 18 0	...	...	...	
,, 30th	A_N P	23 6 58	...	...	...	Feeble shock.
	F	23 54 0	...	...	...	
,, 30th	A_E P	23 6 58	...	...	...	Do.
	F	23 54 0	...	...	...	
,, 31st	A_N P	1 19 1	...	...	...	Do.
	F	1 57 0	...	...	...	
,, 31st	A_E P	1 19 1	...	...	...	Do.
	F	1 57 0	...	...	...	
,, 31st	A_N e	4 23 0	...	...	...	Tremors.
	f	Mixed with next shock.				
,, 31st	A_E e	4 23 0	...	...	...	Do.
	f	Mixed with next shock.				

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Jan. 31st	P	4 47 35	...	...	...	Feeble shock.
	S	4 57 51	...	...	...	
	F	6 21 0	...	...	...	
,, 31st	P	4 47 35	...	...	...	Do.
	S	4 57 51	...	...	...	
	F	6 21 0	...	...	...	
,, 31st	Pe	12 7 14	...	...	...	Do.
	F	13 3 0	...	...	...	
,, 31st	Pe	12 7 14	...	...	...	Do.
	F	13 3 0	...	...	...	
,, 31st	P	16 14 5	...	...	...	Do.
	S	16 24 5	...	...	...	
	F	17 49 0	...	...	...	
,, 31st	P	16 14 5	...	...	...	Do.
	S	16 24 5	...	...	...	
	F	17 49 0	...	...	...	
,, 31st	P	20 4 5	...	...	...	Do.
	F	20 49 0	...	...	...	
,, 31st	P	20 4 5	...	...	...	Do.
	S	20 49 0	...	...	...	
,, 31st	P	21 41 52	...	...	...	Do.
	S	21 45 16	...	...	...	
	L	21 46 54	...	...	...	
	F	22 37 0	...	...	...	
,, 31st	P	21 41 52	...	...	...	Do.
	S	21 45 16	...	...	...	
	L	21 46 54	...	...	...	
	F	22 37 0	...	...	...	
Feb. 1st	P	7 44 41	...	...	...	
	S	7 49 46	...	...	...	
	L	7 54 7	...	...	...	
	F	8 55 0	...	...	...	
,, 1st	P	7 44 41	...	...	...	
	S	7 49 46	...	...	...	
	L	7 54 7	...	...	...	
	F	8 55 0	...	...	...	
,, 3rd	P	6 25 43	...	...	...	
	S	6 38 40	...	...	...	
	L	7 12 16	...	...	...	
	M	7 43 28	20	7	...	
		9 1 0	...	...	...	
1932.		H. M. S.				
Feb. 3rd	P	6 25 43	...	...	...	
	S	6 38 40	...	...	...	
	L	7 12 16	...	...	...	
	M	7 46 54	20	...	9	
	F	9 9 0	...	...	...	
,, 3rd	e	12 19 0	...	...	...	Tremors.
	f	13 4 0	...	...	...	
,, 3rd	e	12 19 0	...	...	...	Do.
	f	13 13 0	...	...	...	
,, 4th	P	6 27 57	...	...	...	Feeble shock.
	F	7 32 0	...	...	...	
,, 4th	P	6 27 57	...	...	...	Do.
	F	7 15 0	...	...	...	
,, 4th	P	21 21 7	...	...	...	
	S	21 24 10	...	...	...	
	L	21 25 58	...	...	...	
	M	21 31 5	8	2	...	
	F	22 4 0	...	...	...	
,, 4th	P	21 21 7	...	...	...	
	S	21 24 10	...	...	...	
	L	21 25 58	...	...	...	
	M	21 29 27	8	...	2	
	F	22 3 0	...	...	...	
,, 5th	P	13 48 35	...	...	...	
	S	13 52 55	...	...	...	
	L	13 56 16	...	...	...	
	M	13 56 25	7	9	...	
	F	14 45 0	...	...	...	
,, 5th	P	13 48 35	...	...	...	
	S	13 52 55	...	...	...	
	L	13 56 16	...	...	...	
	M	13 59 19	11	...	4	
	F	14 49 0	...	...	...	
,, 6th	P	5 43 37	...	...	...	Feeble shock.
	F	6 29 0	...	...	...	
,, 6th	P	5 43 37	...	...	...	Do.
	F	6 31 0	...	...	...	
,, 9th	P	2 23 47	...	...	...	Do.
	F	2 44 0	...	...	...	
,, 9th	P	2 23 47	...	...	...	Do.
	F	2 48 0	...	...	...	
Feb. 11th	P	11 47 35	...	...	...	Feeble shock.
	S	11 52 38	...	...	...	
	F	Mixed up with next shock.				
,, 11th	P	11 47 35	...	...	...	Do.
	S	11 52 38	...	...	...	
	F	Mixed up with next shock.				
,, 11th	Pe	12 1 43	...	...	...	
	S	12 6 43	...	...	...	
	L	12 10 13	...	...	...	
	F	13 5 0	...	...	...	
,, 11th	Pe	12 1 43	...	...	...	
	S	12 6 43	...	...	...	
	L	12 10 13	...	...	...	
	F	13 4 0	...	...	...	
,, 12th	P	1 2 15	...	...	...	
	S	1 5 37	...	...	...	
	L	1 7 58	...	...	...	
	M	1 10 14	14	2	...	
	F	3 2 0	...	...	...	
,, 12th	P	1 2 15	...	...	...	
	S	1 5 37	...	...	...	
	L	1 7 58	...	...	...	
	M	1 8 42	15	...	28	
	F	3 13 0	...	...	...	
,, 13th	e	19 33 0	...	...	...	Tremors.
	f	20 12 0	...	...	...	
,, 13th	e	19 33 0	...	...	...	Do.
	f	20 12 0	...	...	...	
,, 14th	P	2 43 57	...	...	...	Very feeble shock.
	F	3 7 0	...	...	...	
,, 14th	P	2 43 57	...	...	...	Do.
	F	3 7 0	...	...	...	
,, 14th	P	12 15 43	...	...	...	Feeble shock.
	F	13 15 0	...	...	...	
,, 14th	P	12 15 43	...	...	...	Do.
	F	13 15 0	...	...	...	
,, 14th	P	15 37 48	...	...	...	Do.
	F	15 45 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). A_N	Amplitude (μ). A_E	Remarks.
1932.		H. M. S.				
Feb. 14th	A_E P	15 37 43	...	...	...	Feeble shock.
	F	15 45 0	...	...	...	
,, 14th	A_N P	20 34 36	...	...	...	Very feeble shock.
	F	21 7 0	...	...	...	
,, 14th	A_E P	20 34 36	...	...	...	Do.
	F	21 7 0	...	...	...	
14th	A_N P	23 21 2	...	...	...	
	S	23 26 43	...	...	...	
	L	23 31 54	...	...	...	
	M	23 36 36	10	5	...	
,, 15th	F	1 20 0	...	...	...	
,, 14th	A_E P	23 21 2	...	...	...	
	S	23 26 43	...	...	...	
	L	23 31 54	...	...	...	
	M	23 35 45	11	...	9	
,, 15th	F	1 25 0	...	...	...	
,, 15th	A_N P	9 49 12	...	...	...	Very feeble shock.
	F	10 12 0	...	...	...	
,, 15th	A_E P	9 49 12	...	...	...	Do.
	F	10 12 0	...	...	...	
,, 16th	A_N P	14 6 39	...	...	...	
	S	14 18 56	...	...	...	
	L	14 47 11	...	...	...	
	F	16 4 0	...	...	...	
,, 16th	A_E P	14 6 39	...	...	...	
	S	14 18 56	...	...	...	
	L	14 47 11	...	...	...	
	M	14 53 24	21	...	7	
	F	16 27 0	...	...	...	
,, 17th	A_N e	23 34 0	...	...	...	Tremors.
,, 18th	f	0 7 0	...	...	...	
,, 17th	A_E e	23 34 0	...	...	...	Do.
,, 18th	f	0 7 0	...	...	...	
,, 18th	A_N P	1 31 36	...	...	...	Very feeble shock.
	F	2 0 0	...	...	...	
,, 18th	A_E P	1 31 36	...	...	...	Do.
	F	1 58 0	...	...	...	
1932.		H. M. S.				
Feb. 21st	A_N P	12 48 41	...	...	...	Feeble shock.
	F	Mixed up with the next shock.				
,, 21st	A_E P	12 48 41	...	...	...	Do.
	F	Mixed up with the next shock.				
,, 21st	A_N Pe	13 25 7	...	...	...	
	M	13 31 23	14	4	...	
	F	14 34 0	...	...	...	
,, 21st	A_E Pe	13 25 7	...	...	...	
	M	13 36 27	12	...	3	
	F	14 49 0	...	...	...	
,, 23rd	A_N P	0 32 1	...	...	...	
	S	0 40 55	...	...	...	
	L	0 55 41	...	...	...	
	M	1 5 31	18	3	...	
	F	2 58 0	...	...	...	
,, 23rd	A_E P	0 32 1	...	...	...	
	S	0 40 55	...	...	...	
	L	0 55 41	...	...	...	
	M	0 57 18	24	...	17	
	F	3 14 0	...	...	...	
,, 23rd	A_N P	20 21 42	...	...	...	Feeble shock.
	F	21 52 0	...	...	...	
,, 23rd	A_E P	20 21 42	...	...	...	Do.
	F	21 58 0	...	...	...	
,, 24th	A_N P	21 54 31	...	...	...	Very feeble shock.
	F	22 21 0	...	...	...	
,, 24th	A_E P	21 54 31	...	...	...	Do.
	F	22 21 0	...	...	...	
,, 26th	A_N e	7 35 0	...	...	...	Tremors.
	f	8 21 0	...	...	...	
,, 26th	A_E e	7 36 0	...	...	...	Do.
	f	8 20 0	...	...	...	
,, 26th	A_N P	11 39 16	...	...	...	Very feeble shock.
	F	12 19 0	...	...	...	
,, 26th	A_E P	11 39 16	...	...	...	Do.
	F	12 19 0	...	...	...	
1932.		H. M. S.				
Feb. 27th	A_N e	21 45 0	...	...	...	Tremors.
	f	21 59 0	...	...	...	
,, 24th	A_E e	21 45 0	...	...	...	Do.
	f	21 59 0	...	...	...	
,, 29th	A_N e	22 59 0	...	...	...	Do.
	f	23 17 0	...	...	...	
,, 29th	A_E e	22 59 0	...	...	...	Do.
	f	23 17 0	...	...	...	
Mar. 4th	A_N P	23 24 42	...	...	...f	
	S	23 28 5	...	...	...	
	L	23 29 36	...	...	...	
,, 5th	M	23 30 59	11	24	...	
	F	0 16 0	...	...	...	
,, 4th	A_E P	23 24 42	...	...	...	
	S	23 28 5	...	...	...	
	L	23 29 36	...	...	...	
	M	23 30 12	9	...	16	
,, 5th	F	0 18 0	...	...	..	
,, 5th	A_N e	2 24 0	...	...		Tremors.
	f	3 13 0	...	...	...	
,, 5th	A_E e	2 24 0	...	...	...	Do
	f	3 13 0	...	...	...	
,, 6th	A_N P	0 22 51	...	...	...	
	S	0 26 34	...	...	...	
	L	0 28 26	...	...	...	
	M	0 28 38	6	16	...	
	F	1 9 0	...	...	...	
,, 6th	A_E P	0 22 51	...	...	...	
	S	0 26 34	...	...	...	
	L	0 28 26	...	...	...	
	M	0 30 13	11	...	12	
	F	1 9 0	...	...	...	
,, 6th	A_N P	21 49 5	...	...	...	
	S	21 53 38	...	...	...	
	L	21 56 45	...	...	...	
	M	22 0 15	8	8	...	
	F	22 27 0	...	...	...	
,, 6th	A_E P	21 49 5	...	...	...	
	S	21 53 38	...	...	...	
	L	21 56 45	...	...	...	
	M	21 59 39	9	...	8	
	F	22 35 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). A_N	Amplitude (μ). A_E	Remarks.
1932.		H. M. S.				
Mar. 7th	A_N e	2 53 0	...	...	...	Tremors.
	f	3 14 0	...	...	...	
,, 7th	A_E e	2 53 0	...	...	...	Do.
	f	3 14 0	...	...	...	
,, 8th	A_N P	3 23 42	...	...	...	
	S	3 34 1	...	...	...	
	L	3 54 30	...	...	...	
	F	4 7 0	...	...	...	
,, 8th	A_E P	3 23 42	...	...	...	
	S	3 34 1	...	...	...	
	L	3 54 30	...	...	...	
	F	4 31 0	...	...	...	
,, 8th	A_N P	4 42 17	...	...	...	
	S	4 52 38	...	...	...	
	L	5 13 29	...	...	...	
	M	Movements small.				
	F	6 5 0	...	...	...	
,, 8th	A_E P	4 42 17	...	...	...	
	S	4 52 38	...	...	...	
	L	5 13 29	...	...	...	
	M	5 22 30	23	...	7	
	F	6 17 0	...	...	...	
,, 8th	A_N P	18 19 0	...	...	...	Distant feeble shock.
	F	19 58 0	...	...	...	
,, 8th	A_E P	18 19 0	...	...	...	Do.
	F	19 58 0	...	...	...	
,, 9th	A_N P	1 11 12	...	...	...	Very feeble shock.
	F	1 37 0	...	...	...	
,, 9th	A_E P	1 11 12	...	...	...	Do.
	F	1 37 0	...	...	...	
,, 9th	A_N P	9 26 19	...	...	...	Do.
	F	9 43 0	...	...	...	
,, 9th	A_E P	9 26 19	...	...	...	Do.
	F	9 43 0	...	...	...	
,, 9th	A_N P	10 25 5	...	...	...	Do.
	F	11 1 0	...	...	...	
,, 9th	A_E P	10 25 5	...	...	...	Do.
	F	11 1 0	...	...	...	
1932.		H. M. S.				
Mar. 9th	A_N e	18 11 0	...	...	...	Tremors.
	f	18 41 0	...	...	...	
,, 9th	A_E e	18 11 0	...	...	...	Do.
	f	18 41 0	...	...	...	
,, 10th	A_N e	1 10 0	...	...	...	Do.
	f	1 44 0	...	...	...	
,, 10th	A_E e	1 10 0	...	...	...	Do.
	f	1 44 0	...	...	...	
,, 10th	A_N Pe	5 39 12	...	...	...	Distant feeble shock.
	F	7 32 0	...	...	...	
,, 10th	A_E Pe	5 39 12	...	...	...	Do.
	F	7 42 0	...	...	...	
,, 14th	A_N P	23 2 20	...	...	...	
	S	23 5 51	...	...	...	
	L	23 7 46	...	...	...	
	M	Movements small.				
,, 15th	F	0 56 0	...	...		
,, 14th	A_E P	23 2 20	...	...	...	
	S	23 5 51	...	...	...	
	L	23 7 46	...	...	...	
,, 15th	M	0 24 46	17	...	2	
	F	1 14 0	...	...	...	
,, 15th	A_N P	4 43 22	...	...	...	
	S	4 52 31	...	...	...	
	L	5 6 39	...	...	...	
	F	6 20 0	...	...	...	
,, 15th	A_E P	4 43 22	...	...	...	
	S	4 52 31	...	...	...	
	L	5 6 39	...	...	...	
	F	6 20 0	...	...	...	
,, 15th	A_N P	6 45 21	...	...	...	Feeble shock.
	F	7 6 0	...	...	...	
,, 15th	A_E P	6 45 21	...	...	...	Do.
	F	7 6 0	...	...	...	
,, 15th	A_N e	7 56 0	...	...	...	Tremors.
	f	8 26 0	...	...	...	
,, 15th	A_E e	7 56 0	...	...	...	Do.
	f	8 26 0	...	...	...	
1932.		H. M. S.				
Mar. 15th	A_N Pe	10 24 6	...	...	...	Very feeble shock.
	F	10 57 0	...	...	...	
,, 15th	A_E Pe	10 24 6	...	...	...	Do.
	F	10 57 0	...	...	...	
,, 16th	A_N e	20 55 0	...	...	...	Tremors.
	f	22 9 0	...	...	...	
,, 16th	A_E e	20 55 0	...	...	...	Do.
	f	22 9 0	...	...	...	
,, 18th	A_N P	5 23 35	...	...	...	
	S	5 29 22	...	...	...	
	L	5 34 18	...	...	...	
	M	5 39 22	9	3	...	
	F	7 7 0	...	...	...	
,, 18th	A_E P	5 23 35	...	...	...	
	S	5 29 22	...	...	...	
	L	5 34 18	...	...	...	
	M	5 40 45	12	...	5	
	F	7 13 0	...	...	...	
,, 19th	A_N P	11 11 0	...	...	...	
	S	11 20 9	...	...	...	
	L	11 36 24	...	...	...	
	M	11 39 23	...	17	4	
	F	12 50 0	...	...	...	
,, 19th	A_E P	11 11 0	...	...	...	
	S	11 20 9	...	...	...	
	L	11 36 24	...	...	...	
	M	11 42 44	20	...	5	
	F	13 9 0	...	...	...	
,, 19th	A_N e	13 18 0	...	...	...	Tremors.
	f	14 0 0	...	...	...	
,, 19th	A_E e	13 18 0	...	...	...	Do.
	f	14 0 0	...	...	...	
,, 19th	A_N P	23 22 17	...	...	...	Distant feeble shock.
,, 20th	F	0 47 0	...	...	...	
,, 19th	A_E P	23 22 17	...	...	...	Do.
,, 20th	F	0 47 0	...	...	...	
,, 21st	A_N P	11 32 44	...	...	...	Very feeble shock.
	F	11 55 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	Remarks.
1932.		H. M. S.				
Mar. 21st	A_E P	11 32 44	...	...	...	Very feeble shock.
	F	11 55 0	...	...	...	
	A_N e	12 29 0	...	...	...	Tremors.
„ 23rd	f	12 57 0	...	...	...	
	A_E e	12 29 0	...	...	...	Do.
„ 23rd	f	12 57 0	...	...	...	
	A_N e	13 27 0	...	...	...	Do.
„ 23rd	f	14 11 0	...	...	...	
	A_E e	13 27 0	...	...	...	Do.
„ 23rd	f	14 11 0	...	...	...	
	A_N P	16 12 41	...	...	...	
„ 24th	S	16 16 7	...	...	...	
	L	16 17 50	...	...	...	
	M	16 18 30	6	19	...	
	F	16 52 0	...	...	...	
	A_E P	16 12 41	...	...	...	
„ 24th	S	16 16 7	...	...	...	
	L	16 17 50	...	...	...	
	M	16 19 21	6	...	10	
	F	16 57 0	...	...	...	
	A_N P	4 33 45	...	...	...	
„ 25th	S	4 36 48	...	...	...	
	L	4 38 13	...	...	...	
	M	4 39 26	5	4	...	
	F	5 13 0	...	...	...	
	A_E P	4 33 45	...	...	...	
„ 25th	S	4 36 48	..	...	...	
	L	4 38 13	...	...	...	
	M	4 40 21	5	...	2	
	F	5 12 0	...	...	...	
	A_N P	0 11 37	...	...	...	
„ 26th	S	0 22 17	...	...	...	
	L	0 44 10	...	...	...	
	M	0 49 30	18	27	...	
	F	3 29 0	...	...	...	
	A_E P	0 11 37	...	...	...	
„ 26th	S	0 22 17	...	...	...	
	L	0 44 10	...	...	...	
	M	0 49 30	18	...	38	
	F	3 41 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	Remarks.
1932.		H. M. S.				
Mar. 26th	A_N Pe	7 13 2	...	...	...	Feeble shock.
	M	Movements small.				
	F	8 34 0	...	...	...	
	A_E Pe	7 13 2	...	...	...	Do.
„ 26th	M	7 22 8	12	...	4	
	F	8 25 0	...	...	...	
	A_N P	10 2 24	...	...	...	
„ 26th	S	10 10 14	...	...	...	
	L	10 22 16	...	...	...	
	M	10 33 0	17	10	...	
	F	12 41 0	...	...	...	
	A_E P	10 2 24	...	...	...	
„ 26th	S	10 10 14	...	...	...	
	L	10 22 16	...	...	...	
	M	10 33 10	17	...	15	
	F	13 8 0	...	...	...	
	A_N P	8 48 54	...	...	...	
„ 27th	S	8 52 44	...	...	...	
	L	8 54 50	...	...	...	
	M	8 56 25	10	14	...	
	F	9 55 0	...	...	...	
	A_E P	8 48 54	...	...	...	
„ 27th	S	8 52 44	...	...	...	
	L	8 54 50	...	...	...	
	M	8 57 9	8	...	6	
	F	9 55 0	...	...	...	
	A_N Pe	17 8 21	...	...	...	Very feeble shock.
„ 27th	F	18 8 0	...	...	...	
	A_E Pe	17 8 21	...	...	...	Do.
„ 27th	F	17 38 0	...	...	...	
	A_N P	0 42 48	...	...	...	
„ 28th	S	0 48 43	...	...	...	
	L	0 54 18	...	...	...	
	M	1 1 8	10	4	...	
	F	3 8 0	...	...	...	
	A_E P	0 42 48	...	...	...	
„ 28th	S	0 48 43	...	...	...	
	L	0 54 18	...	...	...	
	M	1 1 2	13	...	9	
	F	3 38 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	Remarks.
1932.		H. M. S.				
Mar. 28th	A_N P	8 54 43	...	...	...	Very feeble shock.
	F	9 43 0	...	...	...	
	A_E P	8 54 43	...	...	...	Do.
„ 28th	F	9 43 0	...	...	...	
	A_N P	9 18 50	...	...	...	Do.
„ 29th	F	10 32 0	...	...	...	
	A_E P	9 18 50	...	...	...	Do.
„ 29th	F	10 32 0	...	...	...	
	A_N Pe	15 14 44	...	...	...	Do.
„ 30th	F	16 18 0	...	...	...	
	A_E Pe	15 14 44	...	...	...	Do.
„ 30th	F	15 48 0	...	...	...	
	A_N e	22 8 0	...	...	...	Tremors.
„ 31st	f	22 34 0	...	...	...	
	A_E e	22 8 0	...	...	...	Do.
„ 31st	f	22 33 0	...	...	...	
April 2nd	A_N Pe	9 5 40	...	...	...	Very feeble shock.
	F	9 40 0	...	...	...	
	A_E Pe	9 5 40	...	...	...	Do.
„ 2nd	F	9 40 0	...	...	...	
	A_N P	20 57 34	...	...	...	
„ 3rd	S	21 8 25	...	...	...	
	L	21 30 55	...	...	...	
	M	21 51 54	19	8	...	
	F	22 33 0	...	...	...	
	A_E P	20 57 34	...	...	...	
„ 3rd	S	21 8 25	...	...	...	
	L	21 30 55	...	...	...	
	M	21 46 12	20	...	4	
	F	23 1 0	...	...	...	
	A_N P	19 26 4	...	...	...	
„ 4th	S	19 36 32	...	...	...	
	L	19 58 53	...	...	...	
	F	20 47 0	...	...	...	
	A_E P	19 26 4	...	...	...	
„ 4th	S	19 36 32	...	...	...	
	L	19 58 53	...	...	...	
	F	20 50 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). A_N	Amplitude (μ). A_E	Remarks.
1932.		H. M. S.				
April 6th	A_N P	9 18 56	...	...	...	Feeble shock.
	S	9 25 4	...	...	...	
	L	9 31 8	...	...	...	
	F	10 16 0	...	...	...	
	A_E P	9 18 56	...	...	...	Do.
	S	9 25 4	...	...	...	
	L	9 31 8	...	...	...	
	F	10 17 0	...	...	...	
„ 8th	A_N Pe	12 14 27	...	...	...	Distant feeble shock.
	F	13 26 0	...	...		
	A_E Pe	12 14 27	...	...	...	Do.
	F	13 53 0	...	...	...	
„ 10th	A_N e	16 59 0	...	...	...	Tremors.
	f	17 12 0	...	...	...	
„ 10th	A_E e	16 59 0	...	...	...	Do.
	f	17 12 0	...	...	...	
„ 13th	A_N P	0 4 49	...	...	...	Distant feeble shock.
	S	0 14 58	...	...	...	
	L	0 34 54	...	...	...	
	F	1 42 0	...	...	...	
„ 13th	A_E P	0 4 49	...	...	...	Do.
	S	0 14 58	...	...	...	
	L	0 34 54	...	...	...	
	F	2 2 0	...	...	...	
„ 13th	A_N Pe	4 4 44	...	...	...	Very feeble shock.
	F	5 0 0	...	...	...	
„ 13th	A_E Pe	4 4 44	...	...	...	Do.
	F	4 57 0	...	...	...	
„ 18th	A_N P	11 22 15	...	...	...	
	S	11 25 56	...	...	...	
	L	11 28 17	...	...	...	
	M	11 33 50	11	5	...	
	F	12 26 0	...	...	...	
„ 18th	A_E P	11 22 15	...	...	...	
	S	11 25 56	...	...	...	
	L	11 28 17	...	...	...	
	M	11 33 9	13	...	9	
	F	12 48 0	...	...	...	
1932.		H. M. S.				
April 22nd	A_N P	5 5 29	...	...	...	
	S	5 11 21	...	...	...	
	L	5 18 7	...	...	...	
	F	6 26 0	...	...	...	
„ 22nd	A_E P	5 5 29	...	...	...	
	S	5 11 21	...	...	...	
	L	5 18 7	...	...	...	
	F	7 6 0	...	...	...	
„ 26th	A_N P	8 14 27	...	...	...	Distant feeble shock.
	F	10 9 0	...	...	...	
„ 26th	A_E P	8 14 27	...	...	...	Do.
	F	10 11 0	...	...	...	
„ 29th	A_N Pe	17 39 57	...	...	...	Very feeble shock.
	F	18 26 0	...	...	...	
„ 29th	A_E Pe	17 39 57	...	...	...	Do.
	F	18 26 0	...	...	...	
„ 29th	A_N P	18 31 16	...	...	...	Distant feeble shock.
	F	19 54 0	...	...	...	
„ 29th	A_E P	18 31 16	...	...	...	Do.
	F	19 54 0	...	...	...	
„ 30th	A_N P	1 19 6	...	...	...	Feeble shock.
	F	Lost while changing paper.				
„ 30th	A_E P	1 19 6	...	...	...	Do.
	F	Lost while changing paper.				
„ 30th	A_N P	10 56 38	...	...	...	
	S	10 59 47	...	...	...	
	L	11 1 16	...	...	...	
	F	11 24 0	...	...	...	
„ 30th	A_E P	10 56 38	...	...	...	
	S	10 59 47	...	...	...	
	L	11 1 16	...	...	...	
	F	11 38 0	...	...	...	
May 1st	A_N e	5 7 0	...	...	...	Tremors.
	f	5 41 0	...	...	...	
„ 1st	A_E e	5 7 0	...	...	...	Do.
	f	5 41 0	...	...	...	
1932.		H. M. S.				
May 2nd	A_N P	23 38 40	...	...	...	Very feeble shock.
„ 3rd	F	0 37 0	...	...	...	
„ 2nd	A_E P	23 38 40	...	...	...	Do.
„ 3rd	F	0 37 0	...	...	...	
„ 4th	A_N e	1 31 0	...	...	...	Tremors.
	f	1 48 0	...	...	...	
„ 4th	A_E e	1 31 0	...	...	...	Do.
	f	1 53 0	...	...	...	
„ 4th	A_N Pe	11 30 2	...	...	...	Very feeble shock.
	F	11 49 0	...	...	...	
„ 4th	A_E Pe	11 30 2	...	...	...	Do.
	F	11 49 0	...	...	...	
„ 4th	A_N e	22 19 0	...	...	...	Tremors.
	f	22 30 0	...	...	...	
„ 4th	A_E e	22 19 0	...	...	...	Do.
	f	22 30 0	...	...	...	
„ 5th	A_N P	4 20 18	...	...	...	Feeble shock.
	F	5 12 0	...	...	...	
„ 5th	A_E P	4 20 18	...	...	...	Do.
	F	5 12 0	...	...	...	
„ 5th	A_N e	9 8 0	...	...	...	Tremors.
	f	9 20 0	...	...	...	
„ 5th	A_E e	9 8 0	...	...	...	Do.
	f	9 20 0	...	...	...	
„ 10th	A_N Pe	14 27 20	...	...	...	Very feeble shock.
	F	15 7 0	...	...	...	
„ 10th	A_E Pe	14 27 20	...	...	...	Do.
	F	15 7 0	...	...	...	
„ 11th	A_N P	7 3 57	...	...	...	Feeble shock.
	F	8 8 0	...	...	...	
„ 11th	A_E P	7 3 57	...	...	...	Do.
	F	8 8 0	...	...	...	
„ 12th	A_N Pe	6 17 19	...	...	...	Do
	F	7 12 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	Remarks.
1932.		H. M. S.				
May 12th	Pe	6 17 19	...	...	...	Feeble shock.
	F	7 12 0	...	...	...	
,, 14th	P	13 20 37	...	...	...	
	S	13 27 59	...	...	...	
	L	13 36 7	...	...	...	
	M	13 36 32	25	1009	...	
	F	18 7 0	...	...	...	
,, 14th	P	13 20 37	...	...	...	
	S	13 27 59	...	...	...	
	L	13 36 7	...	...	...	
	M	13 38 55	28	...	1145	
	F	18 53 0	...	...	...	
,, 17th	Pe	13 5 12	...	...	...	Very feeble shock.
	F	13 50 0	...	...	...	
,, 17th	Pe	13 5 12	...	...	...	Do.
	F	13 50 0	...	...	...	
,, 17th	P	13 54 32	...	...	...	
	S	13 55 54	...	...	...	
	L	13 56 29	...	...	...	
	F	14 9 0	...	...	...	
,, 17th	P	13 54 32	...	...	...	
	S	13 55 54	...	...	...	
	L	13 56 29	...	...	...	
	F	14 10 0	...	...	...	
,, 18th	Pe	19 5 43	...	...	...	
	M	19 33 52	15	7	...	
	F	20 30 0	...	...	...	
,, 18th	Pe	19 5 43	...	...	...	
	M	19 30 39	18	...	7	
	F	20 40 0	...	...	...	
,, 20th	Pe	19 20 40	...	...	...	
	M	19 34 56	9	3	...	
	F	19 55 0	...	...	...	
,, 20th	Pe	19 20 40	...	...	...	
	M	19 31 7	12	...	3	
	F	19 54 0	...	...	...	
,, 21st	P	10 29 33	...	...	...	
	S	10 43 8	...	...	...	
	L	11 19 7	...	...	...	
	M	11 31 34	24	26	...	
	F	12 56 0	...	...	...	
1932.		H. M. S.				
May 21st	P	10 29 33	...	...	...	
	S	10 43 8	...	...	...	
	L	11 19 7	...	...	...	
	M	11 30 34	24	...	29	
	F	12 58 0	...	...	...	
,, 21st	Pe	21 49 8	...	...	...	Very feeble shock.
	F	22 9 0	...	...	...	
,, 21st	Pe	21 49 8	...	...	...	Do.
	F	22 7 0	...	...	...	
,, 22nd	Pe	11 54 45	...	...	...	Very feeble shock.
	F	12 16 0	...	...	...	
,, 22nd	Pe	11 54 45	...	...	...	Do.
	F	12 17 0	...	...	...	
,, 22nd	Pe	12 22 45	...	...	...	Distant feeble shock.
	F	13 26 0	...	...	...	
,, 22nd	Pe	12 22 45	...	...	...	Do.
	F	13 30 0	...	...	...	
,, 26th	P	5 17 33	...	...	...	
	S	5 21 39	...	...	...	
	L	5 24 29	...	...	...	
	M	5 25 18	7	6	...	
	F	6 4 0	...	...	...	
,, 26th	P	5 17 33	...	...	...	
	S	5 21 39	...	...	...	
	L	5 24 29	...	...	...	
	M	5 27 9	9	...	4	
	F	6 3 0	...	...	...	
,, 26th	P	16 23 36	...	...	...	
	S	16 30 22	...	...	...	
	L	16 39 21	...	...	...	
	M	16 41 9	15	46	...	
	F	20 0 0	...	...	...	
,, 26th	P	16 23 36	...	...	...	
	S	16 30 22	...	...	...	
	L	16 39 21	...	...	...	
	M	16 40 34	17	...	70	
	F	19 58 0	...	...	...	
,, 26th	Pe	22 41 44	...	...	...	Very feeble shock.
	F	23 8 0	...	...	...	
1932.		H. M. S.				
May 26th	Pe	22 41 44	...	...	...	Very feeble shock.
	F	23 9 0	...	...	...	
,, 27th	Pe	12 52 35	...	...	...	Do.
	F	13 8 0	...	...	...	
,, 27th	Pe	12 52 35	...	...	...	Do.
	F	13 8 0	...	...	...	
,, 28th	P	2 30 47	...	...	...	
	S	2 38 22	...	...	...	
	L	2 49 11	...	...	...	
	M	2 54 29	17	13	...	
	F	4 4 0	...	...	...	
28th	P	2 30 47	...	...	...	
	S	2 38 22	...	...	...	
	L	2 49 11	...	...	...	
	M	2 57 0	17	...	7	
	F	4 4 0	...	...	...	
,, 31st	Pe	15 21 9	...	...	...	Feeble shock.
	M	15 26 8	9	2	...	
	F	15 42 0	...	...	...	
,, 31st	Pe	15 21 9	...	...	...	Do.
	M	15 25 58	10	...	2	
	F	15 49 0	...	...	...	
June 2nd	Pe	18 58 32	...	...	...	Very feeble shock.
	F	19 22 0	...	...	...	
,, 2nd	Pe	18 58 32	...	...	...	Do.
	F	19 22 0	...	...	...	
,, 3rd	e	0 38 0	...	...	...	Tremors.
	f	1 5 0	...	...	...	
,, 3rd	e	0 38 0	...	...	...	Do.
	f	1 12 0	...	...	...	
,, 3rd	P	10 56 34	...	...	...	
	S	11 9 6	...	...	...	
	L	11 36 42	...	...	...	
	M	12 6 9	23	991	...	
	F	15 48 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_E					
June 3rd	P	10 56 34	...	...	...	
	S	11 9 6	...	...	...	
	L	11 36 42	...	...	...	
	M	12 7 27	23	...	599	
	F	15 50 0	...	...	...	
	A_N					
,, 3rd	P	17 42 6	...	...	...	Feeble shock.
	F	18 16 0	...	...	...	
	A_E					
,, 3rd	P	17 42 6	...	...	...	Do.
	F	18 16 0	...	...	...	
	A_N					
,, 5th	e	10 20 0	...	...	...	Tremors.
	f	10 42 0	...	...	...	
	A_E					
,, 5th	e	10 20 0	...	...	...	Do.
	f	10 42 0	...	...	...	
	A_N					
,, 5th	e	13 18 0	...	...	...	Do.
	f	13 33 0	...	...	...	
	A_E					
,, 5th	e	13 18 0	...	...	...	Do.
	f	13 33 0	...	...	...	
	A_N					
,, 6th	P	6 41 16	...	...	...	Very feeble shock.
	F	6 57 0	...	...	...	
	A_E					
,, 6th	P	6 41 16	...	...	...	Do.
	F	6 57 0	...	...	...	
	A_N					
,, 6th	P	9 11 50	...	...	...	Distant feeble shock.
	F	10 55 0	...	...	...	
	A_E					
,, 6th	P	9 12 2	...	...	...	Do.
	F	10 55 0	...	...	...	
	A_N					
,, 8th	P	15 3 14	...	...	...	Feeble shock.
	S	15 11 7	...	...	...	
	L	15 27 2	...	...	...	
	F	15 49 0	...	...	...	
	A_E					
, 8th	P	15 8 14	...	...	...	Do.
	S	15 11 7	...	...	...	
	L	15 27 2	...	...	...	
	F	15 44 0	...	...	...	
	A_N					
,, 10th	P	20 31 14	...	...	...	
	S	20 38 23	...	...	...	
	L	20 48 12	...	...	...	
	F	21 21 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_E					
June 10th	P	20 31 14	...	...	...	
	S	20 38 23	...	...	...	
	L	20 48 12	...	...	...	
	F	21 19 0	...	...	...	
	A_N					
,, 11th	P	8 37 21	...	...	...	
	S	8 40 54	...	...	...	
	L	8 43 11	...	...	...	
	M	8 47 14	12	3	...	
	F	9 35 0	...	...	...	
	A_E					
,, 11th	P	8 37 21	...	...	...	
	S	8 40 54	...	...	...	
	L	8 43 11	...	...	...	
	M	8 48 21	11	...	2	
	F	9 27 0	...	...	...	
	A_N					
,, 11th	Pe	17 10 52	...	...	...	Very feeble shock.
	F	17 57 0	...	...	...	
	A_E					
,, 11th	Pe	17 10 52	...	...	...	Do.
	F	17 59 0	...	...	...	
	A_N					
,, 13th	P	21 5 41	...	...	...	
	S	21 12 26	...	...	...	
	L	21 21 11	...	...	...	
	M	21 25 15	13	5	...	
	F	22 11 0	...	...	...	
	A_E					
,, 13th	P	21 5 41	...	...	...	
	S	21 12 26	...	...	...	
	L	21 21 11	...	...	...	
	M	21 28 7	14	6	...	
	F	22 13 0	...	...	...	
	A_E					
,, 14th	P	6 7 54	...	...	...	Feeble shock.
	F	6 58 0	...	...	...	
	A_E					
,, 14th	P	6 7 54	...	...	...	Do.
	F	6 58 0	...	...	...	
	A_N					
,, 14th	Pe	11 26 40	...	...	...	Do.
	F	12 24 0	...	...	...	
	A_E					
,, 14th	Pe	11 27 6	...	...	...	Do.
	F	12 25 0	...	...	...	
	A_N					
,, 16th	P	1 24 42	...	...	...	
	S	1 29 27	...	...	...	
	L	1 32 56	...	...	...	
	M	1 38 31	8	7	...	
	F	3 23 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_E					
June 16th	P	1 24 42	...	...	...	
	S	1 29 27	...	...	...	
	L	1 32 56	...	...	...	
	M	1 41 25	10	...	5	
	F	3 7 0	...	...	...	
	A_N					
,, 18th	P	10 32 3	...	...	...	
	S	10 45 20	...	...	...	
	L	11 21 1	...	...	...	
	M	11 43 42	21	461	...	
	F	13 58 0	...	...	...	
	A_E					
,, 18th	P	10 32 3	...	...	...	
	S	10 45 20	...	...	...	
	L	11 21 1	...	...	...	
	M	11 44 44	19	...	171	
	F	14 7 0	...	...	...	
	A_N					
,, 18th	P	17 40 54	...	...	...	Feeble shock.
	F	18 32 0	...	...	...	
	A_E					
,, 18th	P	17 40 54	...	...	...	Do.
	F	18 33 0	...	...	...	
	A_N					
,, 20th	e	6 1 0	...	...	...	Tremors.
	f	6 19 0	...	...	...	
	A_E					
,, 20th	e	6 1 0	...	...	...	Do.
	f	6 16 0	...	...	...	
	A_N					
,, 21st	Pe	23 11 58	...	...	...	Very feeble shock.
	F	23 41 0	...	...	...	
	A_E					
,, 20th	Pe	23 11 58	...	...	...	Do.
	F	23 39 0	...	...	...	
	A_N					
,, 22nd	Pe	0 46 17	...	...	...	Feeble shock.
	F	1 32 0	...	...	...	
	A_E					
,, 22nd	Pe	0 46 17	...	...	...	Do.
	F	1 32 0	...	...	...	
	A_N					
,, 22nd	P	13 19 18	...	...	...	
	S	13 32 29	...	...	...	
	L	14 7 1	...	...	...	
	M	14 24 39	22	28	...	
	F	16 2 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
June 22nd	P	13 19 18	...	...	...	
	S	13 32 29	...	...	...	
	L	14 7 1	...	...	...	
	M	14 24 11	20	...	21	
	F	16 5 0	...	...	...	
,, 26th	P	19 30 19	...	...	...	
	S	19 39 25	...	...	...	
	L	19 55 15	...	...	...	
	M	20 2 51	16	4	...	
	F	20 31 0	...	...	...	
,, 26th	P	19 30 19	...	...	...	
	S	19 39 25	...	...	...	
	L	19 55 15	...	...	...	
	M	20 6 17	15	...	3	
	F	20 34 0	...	...	...	
,, 29th	Pe	18 31 8	...	...	...	Feeble shock.
	F	19 36 0	...	...	...	
,, 29th	Pe	18 31 8	...	...	...	Do.
	F	19 28 0	...	...	...	
July 2nd	Pe	2 29 44	...	...	...	Very feeble shock.
	F	3 11 0	...	...	...	
,, 2nd	Pe	2 29 44	...	...	...	Do.
	F	3 9 0	...	...	...	
,, 5th	P	11 1 13	...	...	...	
	S	11 5 43	...	...	...	
	L	11 8 55	...	...	...	
	F	11 52 0	...	...	...	
,, 5th	P	11 1 13	...	...	...	
	S	11 5 43	...	...	...	
	L	11 8 55	...	...	...	
	F	11 47 0	...	...	...	
,, 7th	Pe	16 37 55	...	...	...	Distant shock.
	M	17 39 43	21	14	...	
	F	18 52 0	...	...	...	
,, 7th	Pe	16 37 55	...	...	...	Do.
	M	17 37 30	19	...	10	
	F	18 32 0	...	...	...	
,, 9th	Pe	13 19 17	...	...	...	Feeble shock.
		14 7 0	...	...	...	
1932.		H. M. S.				
July 9th	Pe	13 19 17	...	...	...	Feeble shock.
	F	14 7 0	...	...	...	
,, 12th	Pe	20 3 55	...	...	...	
	M	20 51 7	21	22	...	
	F	21 51 0	...	...	...	
,, 12th	Pe	20 3 55	...	...	...	
	M	20 43 41	25	...	17	
	F	21 44 0	...	...	...	
,, 15th	e	21 26 0	...	...	...	Tremors.
	f	21 47 0	...	...	...	
,, 15th	e	21 26 0	...	...	...	Do.
	f	21 47 0	...	...	...	
,, 16th	P	21 4 48	...	...	...	
	S	21 9 8	...	...	...	
	L	21 13 9	...	...	...	
	M	21 19 25	14	5	...	
	F	22 28 0	...	...	...	
,, 16th	P	21 4 48	...	...	...	
	S	21 9 8	...	...	...	
	L	21 13 9	...	...	...	
	M	21 18 11	15	...	8	
	F	22 19 0	...	...	...	
,, 20th	Pe	20 27 55	...	...	...	Feeble shock.
	F	21 31 0	...	...	...	
,, 20th	Pe	20 27 55	...	...	...	Do.
	F	21 31 0	...	...	...	
,, 21st	P	12 50 49	...	...	...	
	S	12 59 38	...	...	...	
	L	13 14 12	...	...	...	
	F	13 45 0	...	...	...	
,, 21st	P	12 50 49	...	...	...	
	S	12 59 38	...	...	...	
	L	13 14 12	...	...	...	
	F	13 55 0	...	...	...	
,, 21st	e	17 20 0	...	...	...	Tremors.
	f	18 30 0	...	...	...	
,, 21st	e	17 20 0	...	...	...	Do.
	f	18 30 0	...	...	...	
1932.		H. M. S.				
July 25th	e	8 38 0	...	...	...	Tremors.
	f	8 55 0	...	...	...	
,, 25th	e	8 38 0	...	...	...	Do.
	f	8 49 0	...	...	...	
,, 25th	P	9 34 57	...	...	...	
	S	9 47 32	...	...	...	
	L	10 18 47	...	...	...	
	M	10 43 22	19	16	...	
	F	11 55 0	...	...	...	
,, 25th	P	9 34 57	...	...	...	
	S	9 47 32	...	...	...	
	L	10 18 47	...	...	...	
	M	10 44 49	17	...	9	
	F	11 41 0	...	...	...	
,, 27th	P	21 29 53	...	...	...	
	S	21 38 2	...	...	...	
	L	21 49 38	...	...	...	
	F	22 23 0	...	...	...	
,, 27th	P	21 29 53	...	...	...	
	S	21 38 2	...	...	...	
	L	21 49 38	...	...	...	
	F	22 23 0	...	...	...	
,, 29th	P	21 7 36	...	...	...	Feeble shock.
	F	21 51 0	...	...	...	
,, 29th	P	21 7 36	...	...	...	Do.
	F	21 51 0	...	...	...	
,, 30th	P	12 23 5	...	...	...	
	S	12 29 46	...	...	...	
	L	12 37 20	...	...	...	
	F	13 19 0	...	...	...	
,, 30th	P	12 23 5	...	...	...	
	S	12 29 46	...	...	...	
	L	12 37 20	...	...	...	
	F	13 11 0	...	...	...	
Aug. 1st	P	6 12 1	...	...	...	
	S	6 13 45	...	...	...	
	L	6 14 30	...	...	...	
	F	6 37 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Aug. 1st	P	6 12 1	...	...	...	
	S	6 13 45	...	...	...	
	L	6 14 30	...	...	...	
	F	6 33 0	...	...	...	
,, 2nd	Pe	4 32 39	...	...	...	Feeble shock.
	F	5 29 0	...	...	...	
,, 2nd	Pe	4 32 39	...	...	...	Do.
	F	5 28 0	...	...	...	
,, 10th	P	16 38 21	...	...	...	Very feeble shock.
	F	17 8 0	...	...	...	
,, 10th	P	16 38 21	...	...	...	Do.
	F	17 6 0	...	...	...	
,, 12th	P	3 37 7	...	...	...	
	S	3 47 37	...	...	...	
	L	4 9 29	...	...	...	
	M	4 22 29	20	17	...	
	F	6 12 0	...	...	...	
,, 12th	P	3 37 7	...	...	...	
	S	3 47 37	...	...	...	
	L	4 9 29	...	...	...	
	M	4 23 15	21	...	18	
	F	6 23 0	...	...	...	
,, 13th	Pe	21 21 42	...	...	...	Distant feeble shock.
	F	22 50 0	...	...	...	
,, 13th	Pe	21 21 42	...	...	...	Do.
	F	22 55 0	...	...	...	
,, 14th	P	4 44 24	...	...	...	
	S	4 48 17	...	...	...	
	L	4 50 37	...	...	...	
	M	4 50 52	11	157	...	
	F	7 11 0	...	...	...	
,, 14th	P	4 44 24	...	...	...	
	S	4 48 17	...	...	...	
	L	4 50 37	...	...	...	
	M	4 55 52	11	...	70	
	F	6 58 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Aug. 14th	P	7 15 36	...	...	...	
	S	7 19 37	...	...	...	
	L	7 21 52	...	...	...	
	M	7 22 59	5	5	...	
	F	7 42 0	...	...	...	
,, 14th	P	7 15 36	...	...	...	
	S	7 19 37	...	...	...	
	L	7 21 52	...	...	...	
	M	Movements very small.				
	F	7 44 0	...	...	...	
,, 14th	P	12 36 5	...	...	...	
	M	12 50 25	14	3	...	
	F	13 44 0	...	...	...	
,, 14th	P	12 36 5	...	...	...	
	M	12 46 39	10	...	2	
	F	13 47 0	...	...	...	
,, 16th	e	21 59 0	...	...	...	
	f	22 17 0	...	...	...	
,, 16th	e	21 59 0	...	...	...	
	f	22 17 0	...	...	...	
,, 17th	e	18 40 0	...	...	...	
	f	19 5 0	...	...	...	
,, 17th	e	18 40 0	...	...	...	
	f	19 5 0	...	...	...	
,, 19th	e	19 8 0	...	...	...	
	f	19 24 0	...	...	...	
,, 19th	e	19 8 0	...	...	...	
	f	19 29 0	...	...	...	
,, 21st	P	4 24 8	...	...	...	
	S	4 30 51	...	...	...	
	L	4 38 55	...	...	...	
	M	4 43 7	22	21	...	
	F	5 47 0	...	...	...	
,, 21st	P	4 24 8	...	...	...	
	S	4 30 51	...	...	...	
	L	4 38 55	...	...	...	
	M	4 48 0	17	...	10	
	F	5 59 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S				
Aug. 22nd	Pe	11 21 18	...	...	...	
	S	11 27 55	...	...	...	
	L	11 36 11	...	...	...	
	M	11 43 34	12	5	...	
	F	12 40 0	...	...	...	
,, 22nd	Pe	11 21 18	...	...	...	
	S	11 27 55	...	...	...	
	L	11 36 11	...	...	...	
	M	11 42 44	12	...	6	
	F	12 38 0	...	...	...	
,, 23rd	e	23 3 0	...	...	...	Tremors.
	f	23 16 0	...	...	...	
,, 23rd	e	23 3 0	...	...	...	Do.
	f	23 1 0	...	...	...	
,, 24th	P	12 18 53	...	...	...	Feeble shock.
	F	13 29 0	...	...	...	
,, 24th	P	12 18 53	...	...	...	Do.
	F	13 36 0	...	...	...	
Sept. 3rd	P	12 9 25	...	...	...	
	S	12 17 47	...	...	...	
	L	12 30 50	...	...	...	
	M	12 40 21	16	4	...	
	F	13 12 0	...	...	...	
,, 3rd	P	12 9 25	...	...	...	
	S	12 17 47	...	...	...	
	L	12 30 50	...	...	...	
	M	12 42 0	15	...	4	
	F	13 20 0	...	...	...	
,, 8th	P	7 29 41	...	...	...	
	S	7 33 16	...	...	...	
	L	7 35 30	...	...	...	
	M	7 40 5	9	4	...	
	F	8 28 0	...	...	...	
,, 8th	P	7 29 41	...	...	...	
	S	7 33 16	...	...	...	
	L	7 35 30	...	...	...	
	M	7 41 7	10	...	8	
	F	8 17 0	...	...	...	
,, 9th	P	7 0 52	...	...	...	Very feeble shock.
		7 38 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Sept. 9th	A_E P	7 0 52	...	...	...	Very feeble shock.
	F	7 36 0	...	...	...	
,, 9th	A_N P	13 49 55	...	...	...	
	S	13 57 4	...	...	...	
	L	14 6 52	...	...	...	
	F	15 30 0	...	...	...	
	AE	Record extremely faint.				
,, 9th	A_N e	17 19 0	...	...	...	Tremors.
	f	18 34 0	...	...	...	
	AE	Record extremely faint.				
,, 11th	A_N	Record defective.				
,, 11th	A_E P	14 18 58	...	...	...	
	S	14 23 36	...	...	...	
	L	14 27 6	...	...	...	
	F	14 54 0	...	...	...	
,, 14th	A_N e	9 30 0	...	...	...	Tremors.
	f	9 51 0	...	...	...	
,, 14th	A_E e	9 30 0	...	...	...	Do.
	f	9 51 0	...	...	...	
,, 15th	A_N P	11 22 8	...	...	...	
	S	11 29 15	...	...	...	
	L	11 39 3	...	...	...	
	M	11 48 56	15	5	...	
	F	12 41 0	...	...	...	
,, 15th	A_E P	11 22 8	...	...	...	
	S	11 29 15	...	...	...	
	L	11 39 3	...	...	...	
	M	11 51 7	16	...	3	
	F	12 22 0	...	...	...	
,, 15th	A_N P	14 16 9	...	...	...	
	S	14 24 9	...	...	...	
	L	14 35 16	...	...	...	
	M	15 5 28	17	15	...	
	F	16 45 0	...	...	...	
,, 15th	A_E P	14 16 9	...	...	...	
	S	14 24 9	...	...	...	
	L	14 35 16	...	...	...	
	M	14 58 8	18	...	8	
	F	16 32 0	...	...	...	

Date.	Phase.	Time H. M. S.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Sept. 20th	A_N P	15 48 35	...	...	...	
	S	15 52 42	...	...	...	
	L	15 55 23	...	...	...	
	M	16 4 18	11	3	...	
	F	17 9 0	...	...	...	
, 20th	A_E P	15 48 35	...	...	...	
	S	15 52 42	...	...	...	
	L	15 55 23	...	...	...	
	M	16 2 11	9	...	1	
	F	16 48 0	...	...	...	
,, 23rd	A_N P	14 31 48	...	...	...	
	S	14 39 38	...	...	...	
	L	14 51 38	...	...	...	
	M	14 53 31	13	7	...	
	F	17 10 0	...	...	...	
,, 23rd	A_E P	14 31 48	...	...	...	
	S	14 39 38	...	...	...	
	L	14 51 38	...	...	...	
	M	14 58 59	15	...	5	
	F	16 49 0	...	...	...	
,, 25th	A_N Pe	22 49 44	...	...	...	
	F	23 7 0	...	...	...	
,, 25th	A_E Pe	22 49 44	...	...	...	
	F	23 7 0	...	...	...	
,, 26th	A_N P	19 29 19	...	...		
	S	19 36 12	...	...		
	L, M, F	Record defective.				
,, 26th	A_E P	19 29 19	...	...	...	
	S	19 36 12	...	...	...	
	L	19 45 9	...	...	...	
	M	19 50 55	18	...	15	
	F	Mixed up with next shock.				
,, 26th	A_N	Record defective.				
,, 26th	A_E P	21 35 35	...	...	...	Feeble shock.
	S	21 42 29	...	...	...	
	Le	21 50 4	...	...	...	
	F	22 53 0	...	...	...	
,, 27th	A_N Pe	18 54 56	...	...	...	Very feeble shock.
	F	19 39 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks
1932.		H. M. S.				
Sept. 27th	A_E Pe	18 54 56	...	...	...	Very feeble shock.
	F	19 39 0	...	...	...	
,, 28th	A_N P	17 0 50	...	...	...	Do.
	F	17 49 0	...	...	...	
,, 28th	A_E P	17 0 50	...	...	...	Do.
	F	17 47 0	...	...	...	
,, 29th	A_N P	4 5 59	...	...	...	
	S	4 12 53	...	...	...	
	L	4 21 36	...	...	...	
	F	5 59 0	...	...	...	
,, 29th	A_E P	4 5 59	...	...	...	
	S	4 12 53	...	...	...	
	L	4 21 36	...	...	...	
	F	5 23 0	...	...	...	
,, 29th	A_N Pe	6 46 43	...	...	...	Feeble local shock.
	M	6 49 30	9	2	...	
	F	7 9 0	...	...	...	
,, 29th	A_E Pe	6 46 43	...	...	...	Do.
	M	6 49 19	5	...	1	
	F	7 12 0	...	...	...	
,, 29th	A_N e	14 39 0	...	...	...	Feeble tremors.
	f	15 7 0	...	...	...	
,, 29th	A_E e	14 39 0	...	...	...	Do.
	f	15 7 0	...	...	...	
,, 29th	A_N P	17 57 44	...	...	...	
	S	18 6 58	...	...	...	
	L	18 23 21	...	...	...	
	M	18 32 51	15	7	...	
	F	20 17 0	...	...	...	
,, 29th	A_E P	17 57 44	...	...	...	
	S	18 6 58	...	...	...	
	L	18 23 21	...	...	...	
	M	18 31 15	14	3	...	
	F	20 12 0	...	...	...	
,, 30th	A_N Pe	6 20 42	...	...	...	Very feeble shock.
	F	6 36 0	...	...	...	
,, 30th	A_E Pe	6 20 42	...	...	...	Do.
	F	6 36 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time. G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_N					
Oct. 1st	Pe	20 21 2	...	...	...	Feeble shock.
	F	20 46 0	...	...	...	
	A_E					
„ 1st	Pe	20 21 2	...	...	...	Do.
	F	20 46 0	...	...	...	
	A_N					
„ 2nd	Pe	3 17 26	...	...	...	Very feeble shock.
	F	Mixed up with the next shock.				
	A_E					
„ 2nd	Pe	3 17 26	...	...	...	Do.
	F	Mixed up with the next shock.				
	A_N					
„ 2nd	Pe	3 27 14	...	...	...	
	S	3 31 29	...	...	...	
	L	3 34 37	...	...	...	
	M	3 37 38	16	23	...	
	F	Mixed up with the next shock.				
	A_E					
„ 2nd	Pe	3 27 14	...		...	
	S	3 31 29	...	...	...	
	L	3 34 37	...			
	M	3 37 7	11	...	5	
	F	Mixed up with the next shock.				
	A_N					
„ 2nd	Pe	4 11 53	...	...	...	
	M	4 30 6	20	10	...	
	F	5 37 0	...	...	...	
	A_E					
„ 2nd	Pe	4 11 53	...	...	...	
	M	4 31 23	20	...	6	
	F	5 20 0	...	...	...	
	A_N					
„ 9th	P	12 58 12	...	...	...	Feeble shock.
	F	13 53 0	...	...	...	
	A_E					
„ 9th	P	12 58 12	...	...	...	Do.
	F	13 56 0	...	...	...	
	A_N					
„ 11th	P	19 27 52	...	...	...	Very feeble shock.
	F	19 38 0	...	...	...	
	A_E					
„ 11th	P	19 27 52	...	...	...	Do.
	F	19 38 0	...	...	...	
	A_N					
„ 12th	e	20 16 0	...	...	...	Tremors.
	f	20 33 0	...	...	...	
	A_E					
„ 12th	e	20 16 0	...	...	...	Do.
	f	20 33 0	...	...	...	

Date.	Phase.	Time. G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_N					
Oct. 13th	Pe	13 58 51	...	...	...	Very feeble shock.
	F	14 14 0	...	...	...	
	A_E					
„ 13th	Pe	13 58 51	...	...	...	Do.
	F	14 14 0	...	...	...	
	A_N					
„ 14th	P	1 59 49	...	...	...	Feeble shock.
	S	2 2 5	...	...	...	
	L	2 2 51	...	...	...	
	F	2 16 0	...	...	...	
	A_E					
„ 14th	P	1 59 49	...	...	...	Do.
	S	2 2 5	...	...	...	
	L	2 2 51	...	...	...	
	F	2 16 0	...	...	...	
	A_N					
„ 16th	P	12 21 23	...	...	...	
	S	12 31 55	...	...	...	
	L	12 53 54	...	...	...	
	M	13 8 14	18	18	...	
	F	15 1 0	...	...	...	
	A_E					
„ 16th	P	12 21 23	...	...	...	
	S	12 31 55	...	...	...	
	L	12 53 54	...	...	...	
	M	13 6 48	18	...	7	
	F	14 54 0	...	...	...	
	A_N					
„ 17th	P	13 38 4	...	...	...	Feeble shock.
	F	15 2 0	...	...	...	
	A_E					
„ 17th	P	13 38 4	...	...	...	Do.
	F	15 1 0	...	...	...	
	A_N					
„ 18th	P	4 18 48	...	...	...	Do.
	F	5 6 0	...	...	...	
	A_E					
„ 18th	P	4 18 48	...	...	...	Do.
	F	5 0 0	...	...	...	
	A_N					
„ 23rd	Pe	0 27 2	...	...	...	Very feeble shock.
	F	Mixed up with the next shock.				
	A_E					
„ 23rd	Pe	0 27 2	...	...	...	Do.
	F	Mixed up with the next shock.				
	A_N					
„ 23rd	Pe	1 7 2	...	...	...	Feeble shock.
	F	1 51 0	...	...	...	

Date.	Phase.	Time. G. M. T.	Period (Sec.)	Amplitude (μ) A_E	Amplitude (μ) A_N	Remarks.
1932.		H. M. S.				
	A_E					
Oct. 23rd	Pe	1 7 2	...	...	...	Feeble Shock.
	F	2 3 0	...	...	...	
	A_N					
„ 23rd	Pe	13 42 42	...	...	...	Very feeble shock.
	F	14 10 0	...	...	...	
	A_E					
„ 23rd	Pe	13 42 42	...	...	...	Do.
	F	14 10 0	...	...	...	
	A_N					
„ 23rd	P	21 36 13	...	...	...	Feeble shock.
	F	22 25 0	...	...	...	
	A_E					
„ 23rd	P	21 36 13	...	...	...	Do.
	F	22 25 0	...	...	...	
	A_N					
„ 25th	P	17 20 10	...	...	...	Do.
	F	17 57 0	...	...	...	
	A_E					
„ 25th	P	17 20 10	...	...	...	Do.
	F	17 58 0	...	...	...	
	A_N					
„ 27th	P	1 11 11	...	...	...	Very feeble shock.
	F	1 33 0	...	...	...	
	A_E					
„ 27th	P	1 11 15	...	...	...	Do.
	F	1 33 0	...	...	...	
	A_N					
„ 27th	Pe	23 42 40	...	...	...	Do.
„ 28th	F	0 5 0	...	...	...	
	A_E					
„ 27th	Pe	23 42 40	...	...	...	Do.
„ 28th	F	0 5 0	...	...	...	
	A_N					
„ 28th	P	11 18 54	...	...	...	Feeble shock.
	F	12 2 0	...	...	...	
	A_E					
„ 28th	P	11 18 54	...	...	...	Do.
	F	12 2 0	...	...	...	
	A_N					
„ 29th	P	10 7 59	...	...	...	Very feeble shock.
	F	10 22 0	...	...	...	
	A_E					
„ 29th	P	10 7 59	...	...	...	Do.
	F	10 22 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time. G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Oct. 29th	A_N P	11 13 26	...	...	...	
	S	11 17 21	...	...	...	
	L	11 19 59	...	...	...	
	M	11 21 31	15	47	...	
	F	13 32 0	...	...	...	
	A_E					
,, 29th	P	11 13 26	...	...	...	
	S	11 17 21	...	...	...	
	L	11 19 59	...	...	...	
	M	11 20 20	10	...	·13	
	F	13 20 0	...	...	...	
	A_N					
,, 30th	P	21 0 22	...	...	...	Distant shock.
	M	21 47 8	17	9	...	
	F	23 33 0	...	...	...	
	A_E					
,, 30th	P	21 0 22	...	...	...	Do.
	M	21 45 39	22	...	5	
	F	23 9 0	...	...	...	
	A_N					
Nov. 2nd	P	11 23 40	...	...	...	Do.
	F	13 33 0	...	...	...	
	A_E					
,, 2nd	P	11 23 40	...	...	...	Do.
	F	13 20 0	...	...	...	
	A_N					
,, 3rd	P	19 53 45	...	...	...	Feeble shock.
	S	20 2 36	...	...	...	
	F	20 39 0	...	...	...	
	A_E					
,, 3rd	P	19 53 45	...	...	...	Do.
	S	20 2 36	...	...	...	
	F	20 37 0	...	...	...	
	A_N					
,, 6th	Pe	6 51 39	...	...	...	Very feeble shock.
	F	7 16 0	...	...	...	
	A_E					
,, 6th	Pe	6 51 39	...	...	...	Do.
	F	7 16 0	...	...	...	
	A_N					
,, 8th	e	1 29 0	...	...	...	Tremors.
	f	1 46 0	...	...	...	
	A_E					
,, 8th	e	1 29 0	...	...	...	
	f	1 42 0	...	...	...	
	A_N					
,, 9th	P	18 34 43	...	...	...	
	S	18 38 13	...	...	...	
	L	18 40 14	...	...	...	
	M	18 40 36	7	25	...	
	F	19 46 0	...	...	...	

Date.	Phase.	Time. G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Nov. 9th	A_E	Instrument under adjustment.				
	A_N					
,, 10th	Pe	2 12 4	...	...	...	Very feeble shock.
	F	2 35 0	...	...	...	
,, 10th	A_E	Instrument under adjustment.				
	A_N					
,, 10th	Pe	6 26 45	...	...	...	Do.
	F	6 38 0	...	...	...	
,, 10th	A_E					
	Pe	6 26 45	...	...	...	Do.
	F	6 38 0	...	...	...	
	A_N					
,, 10th	Pe	13 12 29	...	...	...	Do.
	F	Mixed up with the next shock.				
	A_E					
,, 10th	Pe	13 12 29	...	...	...	Do.
	F	Mixed up with the next shock.				
	A_N					
,, 10th	Pe	13 25 28	...	...	...	Feeble shock.
	F	13 43 0	...	...	...	
	A_E					
,, 10th	Pe	13 25 28	...	...	...	Do.
	F	13 43 0	...	...	...	
	A_N					
,, 13th	P	4 56 25	...	...	...	
	S	5 4 1	...	...	...	
	L	5 15 12	...	...	...	
	M	5 16 17	14	10	...	
	F	7 1 0	...	...	...	
	A_E					
,, 13th	P	4 56 25	...	...	...	
	S	5 4 1	...	...	...	
	L	5 15 12	...	...	...	
	M	5 16 26	14	...	9	
	F	7 12 0	...	...	...	
	A_N					
,, 13th	Pe	16 1 21	...	...	...	Do.
	F	17 13 0	...	...	...	
	A_E					
,, 13th	Pe	16 1 21	...	...	...	Do.
	F	17 13 0	...	...	...	
	A_N					
,, 14th	P	0 44 42	...	...	...	Very feeble shock.
	F	1 13 0	...	...	...	
	A_E					
,, 14th	P	0 44 42	...	...	...	
	F	1 11 0	...	...	...	
	A_N					
,, 14th	Pe	21 34 41	...	...	...	Do.
	F	21 55 0	...	...	...	

Date.	Phase.	Time. G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Nov. 14th	A_E Pe	21 34 41	...	...	...	Very feeble shock.
	F	21 52 0	...	...	...	
,, 16th	A_N P	6 29 44	...	...	...	Do.
	F	6 55 0	...	...	...	
,, 16th	A_E P	6 29 44	...	...	...	Do.
	F	6 55 0	...	...	...	
,, 17th	A_N e	6 26 0	...	...	...	Tremors.
	f	8 14 0	...	...	...	
,, 17th	A_E e	6 26 0	...	...	...	Do.
	f	8 8 0	...	...	...	
,, 18th	A_N P	13 55 57	...	...	...	
	S	14 2 57	...	...	...	
	L	14 12 7	...	...	...	
	F	15 20 0	...	...	...	
,, 18th	A_E P	13 55 57	...	...	...	
	S	14 2 57	...	...	...	
	L	14 12 7	...	...	...	
	F	15 19 0	...	...	...	
,, 19th	A_N P	21 8 44	...	...	...	Very feeble shock.
	F	21 25 0	...	...	...	
,, 19th	A_E P	21 8 44	...	...	...	Do.
	F	21 27 0	...	...	...	
,, 20th	A_N Pe	19 19 14	...	...	...	Do.
	F	19 29 0	...	...	...	
,, 20th	A_E Pe	19 19 14	...	...	...	Do
	F	19 32 0	...	...	...	
,, 21st	A_N Pe	14 54 34	...	...	...	Do.
	F	15 13 0	...	...	...	
,, 21st	A_E Pe	14 54 34	...	...	...	Do
	F	15 13 0	...	...	...	
,, 22nd	A_N P	15 1 11	...	...	...	
	S	15 9 4	...	...	...	
	L	15 20 20	...	...	...	
	F	16 0 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks
1932.		H. M. S.				
	A_E					
Nov. 22n	P	15 1 11	...	...	...	
	S	15 9 4	...	...	...	
	L	15 20 26	...	...	...	
	F	15 58 0	...	...	...	
	A_N					
,, 24th	P	10 45 21	...	...	...	Very feeble local shock.
	F	10 52 0	...	...	...	
	A_E					
,, 24th	P	10 45 21	...	...	...	Do.
	F	10 51 0	...	...	...	
	A_N					
,, 26th	P	4 34 24	...	...	...	
	S	4 42 44	...	...	...	
	L	4 55 36	...	...	...	
	M	5 2 10	15	5	...	
	F	6 7 0	...	...	...	
	A_E					
,, 26th	P	4 34 24	...	...	...	
	S	4 42 44	...	...	...	
	L	4 55 36	...	...	...	
	M	5 3 13	17	...	7	
	F	6 7 0	...	...	...	
	A_N					
,, 27th	P	3 47 52	...	...	...	Feeble shock.
	F	4 51 0	...	...	...	
	A_E					
,, 27th	P	3 47 52	...	...	...	Do.
	F	4 52 0	...	...	...	
	A_N					
,, 27th	e	9 43 0	...	...	...	Tremors.
	f	10 14 0	...	...	...	
	A_E					
,, 27th	e	9 50 0	...	...	...	Do.
	f	10 15 0	...	...	...	
	A_N					
,, 28th	e	21 59 0	...	...	...	Do
	f	22 21 0	...	...	...	
	A_E					
,, 28th	e	21 59 0	...	...	...	Do
	f	22 28 0	...	...	...	
	A_N					
,, 29th	Pe	2 6 39	...	...	...	Feeble shock.
	F	3 4 0	...	...	...	
	A_E					
,, 29th	Pe	2 6 39	...	...	...	Do.
	F	3 6 0	...	...	...	
	A_N					
,, 29th	e	7 11 0	...	...	...	Tremors.
	f	7 26 0	...	...	...	

Date.	Phase.	Time G. M. S.	Period (Sec.).	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_E					
Nov. 29th	e	7 11 0	...	...	...	Tremors.
	f	7 38 0	...	...	...	
	A_N					
,, 29th	P	11 30 39	...	...	...	
	Se	11 40 32	...	...	...	
	L	11 59 28	...	...	...	
	M	12 30 19	22	8	...	
	F	13 46 0	...	...	...	
	A_E					
,, 29th	P	11 30 39	...	...	...	
	Se	11 40 32	...	...	...	
	L	11 59 28	...	...	...	
	M	12 27 10	24	...	12	
	F	13 53 0	...	...	...	
	A_N					
,, 30th	Pe	2 11 1	...	...	...	Very feeble shock.
	F	2 38 0	...	...	...	
	A_E					
,, 30th	Pe	2 11 1	...	...	...	Do.
	F	2 35 0	...	...	...	
	A_N					
,, 30th	e	4 7 0	...	...	...	Tremors.
	f	Mixed up with the next shock.				
	A_E					
,, 30th	e	4 7 0	...	...	...	Do.
	f	Mixed up with the next shock.				
	A_N					
,, 30th	P	4 15 38	...	...	...	Feeble shock.
	F	4 59 0	...	...	...	
	A_E					
,, 30th	P	4 15 38	...	...	...	Do.
	F	4 59 0	...	...	...	
	A_N					
,, 30th	P	8 13 21	...	...	...	Do.
	F	8 33 0	...	...	...	
	A_E					
,, 30th	P	8 13 21	...	...	...	Do.
	F	8 33 0	...	...	...	
	A_N					
,, 30th	e	15 3 0	...	...	...	Tremors.
	f	15 23 0	...	...	...	
	A_E					
,, 30th	e	15 3 0	...	...	...	Do.
	f	15 23 0	...	...	...	
	A_N					
,, 30th	P	17 1 12	...	...	...	
	S	17 4 44	...	...	...	
	L	17 6 10	...	...	...	
	F	17 27 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_E					
Nov. 30th	P	17 1 12	...	...	...	
	S	17 4 44	...	...	...	
	L	17 6 10	...	...	...	
	F	17 32 0	...	...	...	
	A_N					
Dec. 3rd	e	7 12 0	...	...	...	Tremors.
	f	8 5 0	...	...	...	
	A_E					
,, 3rd	e	7 12 0	...	...	...	Do.
	f	8 5 0	...	...	...	
	A_N					
,, 3rd	e	9 24 0	...	...	...	Do.
	f	9 46 0	...	...	...	
	A_E					
,, 3rd	e	9 24 0	...	...	...	Do.
	f	9 46 0	...	...	...	
	A_N					
,, 3rd	Pe	17 45 44	...	...	...	Distant feeble shock.
	F	19 18 0	...	...	...	
	A_E					
,, 3rd	Pe	17 45 44	...	...	...	Do.
	F	19 19 0	...	...	...	
	A_N					
,, 4th	Pe	4 17 29	...	...	...	Do.
	F	5 27 0	...	...	...	
	A_E					
,, 4th	Pe	4 17 29	...	...	...	Do.
	F	5 39 0	...	...	...	
	A_N					
,, 4th	P	8 20 10	...	...	...	
	S	8 27 20	...	...	...	
	L	8 37 23	...	...	...	
	M	8 42 20	22	68	...	
	F	Mixed up with the next shock.				
	A_E					
,, 4th	P	8 20 10	...	...	...	
	S	8 27 20	...	...	...	
	L	8 37 23	...	...	...	
	M	8 42 57	22	...	104	
	F	Mixed up with the next shock.				
	A_N					
,, 4th	P	10 41 54	...	...	...	
	S	10 48 59	...	...	...	
	L	10 58 58	...	...	...	
	M	11 10 26	14	4	...	
	F	12 23 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Dec. 4th	A_E P	10 41 54	...	...	...	
	S	10 48 59	...	...	...	
	L	10 58 58	...	...	...	
	M	11 4 49	20	...	11	
	F	12 21 0	...	...	...	
„ 7th	A_N P	16 41 44	...	...	...	Distant shock.
	M	17 52 58	16	8	...	
	F	19 17 0	...	...	...	
„ 7th	A_E P	16 41 44	...	...	...	Do.
	M	17 54 13	18	...	9	
	F	19 12 0	...	...	...	
„ 8th	A_N Pe	15 27 34	...	...	...	
	S	15 36 5	...	...	...	
	Le	15 51 42	...	...	...	
	M	15 58 17	12	3	...	
	F	16 25 0	...	...	...	
„ 8th	A_E Pe	15 27 34	...	...	...	
	S	15 36 5	...	...	...	
	Le	15 49 13	...	...	...	
	M	15 58 19	11	...	1	
	F	16 29 0	...	...	...	
„ 9th	A_N P	8 54 41	...	...	...	Distant feeble shock.
	F	10 26 0	...	...	...	
„ 9th	A_E P	8 54 41	...	...	...	Do.
	F	10 31 0	...	...	...	
„ 10th	A_N Pe	5 15 44	...	...	...	Feeble shock.
	F	6 15 0	...	...	...	
„ 10th	A_E Pe	5 15 44	...	...	...	Do.
	F	6 14 0	...	...	...	
„ 10th	A_N c	10 30 0	...	...	...	Tremors.
	f	11 51 0	...	...	...	
„ 10th	A_E e	10 30 0	...	...	...	Do.
	f	11 53 0	...	...	...	
„ 11th	A_N P	4 31 4	...	...	...	
	S	4 35 19	...	...	...	
	L	4 37 55	...	...	...	
	M	4 49 30	11	4	...	
	F	6 26 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Dec. 11th	A_E P	4 31 4	...	...	...	
	S	4 35 19	...	...	...	
	L	4 37 55	...	...	...	
	M	4 43 30	14	...	5	
	F	6 26 0	...	...	...	
„ 11th	A_N Pe	7 41 20	...	...	...	Feeble shock.
	F	8 19 0	...	...	...	
„ 11th	A_E Pe	7 47 20	...	...	...	Do.
	F	8 16 0	...	...	...	
„ 13th	A_N Pe	14 47 39	...	...	...	Very feeble shock.
	F	15 8 0	...	...	...	
„ 13th	A_E Pe	14 47 39	...	...	...	Do.
	F	15 3 0	...	...	...	
„ 14th	A_N Pe	0 55 39	...	...	...	Do.
	F	1 13 0	...	...	...	
„ 14th	A_E Pe	0 55 39	...	...	...	Do.
	F	1 13 0	...	...	...	
„ 15th	A_N P	19 42 3	...	...	...	
	S	19 48 38	...	...	...	
	L	19 55 36	...	...	...	
	M	20 5 11	12	4	...	
	F	20 39 0	...	...	...	
„ 15th	A_E P	19 42 3	...	...	...	
	S	19 48 38	...	...	...	
	L	19 55 56	...	...	...	
	M	20 7 58	14	...	5	
	F	20 40 0	...	...	...	
„ 15th	A_N	Loss of record.				
„ 16th	A_E Pe	22 8 41	...	...	...	Very feeble shock.
	F	22 23 0	...	...	...	
„ 16th	A_N Pe	7 23 40	...	...	...	Feeble shock.
	F	8 7 0	...	...	...	
„ 16th	A_E Pe	7 23 40	...	...	...	Do.
	F	7 59 0	...	...	...	
„ 17th	A_N P	9 4 59	...	...	...	
	S	9 8 48	...	...	...	
	L	9 11 24	...	...	...	
	F	9 35 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks
1932.		H. M. S.				
Dec. 17th	A_E P	9 4 59	...	...	...	
	S	9 8 48	...	...	...	
	L	9 11 24	...	...	...	
	F	9 33 0	...	...	...	
„ 18th	A_N e	7 14 0	...	...	...	Tremor
	f	7 45 0	...	...	...	
„ 18th	A_E e	7 15 0	...	...	...	Do.
	f	7 46 0	...	...	...	
„ 19th	A_N e	7 50 0	...	...	...	Tremors.
	f	8 12 0	...	...	...	
„ 19th	A_E e	7 49 0	...	...	...	Do.
	f	8 13 0	...	...	...	
„ 20th	A_N Pe	12 51 23	...	...	...	Very feeble shock.
	F	13 27 0	...	...	...	
„ 20th	A_E Pe	12 51 23	...	...	...	Do.
	F	13 25 0	...	...	...	
„ 20th	A_N Pe	22 35 8	...	...	...	Do.
	F	22 52 0	...	...	...	
„ 20th	A_E Pe	22 35 8	...	...	...	Do.
	F	22 46 0	...	...	...	
„ 21st	A_N P	4 51 29	...	...	...	
	S	4 52 59	...	...	...	
	L	4 53 47	...	...	...	
	M	4 55 2	7	3	...	
	F	5 19 0	...	...	...	
„ 21st	A_E P	4 51 29	...	...	...	
	S	4 52 59	...	...	...	
	L	4 53 47	...	...	...	
	M	4 54 27	10	...	3	
	F	5 19 0	...	...	...	
„ 21st	A_N P	5 30 29	...	...	...	
	S	6 42 6	...	...	...	
	L	7 5 49	...	...	...	
	M	7 17 14	25	26	...	
	F	10 2 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Dec. 21st	P	6 30 29	...	...	...	
	S	6 42 6	...	...	...	
	L	7 5 49	...	...	...	
	M	7 14 29	30	...	104	
	F	9 53 0	...	...	...	
„ 22nd	P	3 32 46	...	...	...	Very feeble shock.
	F	4 1 0	...	...	...	
„ 22nd	P	3 32 46	...	...	...	Do.
	F	4 3 0	...	...	...	
„ 23rd	Pe	18 30 50	...	...	...	Do.
	F	19 5 0	...	...	...	
„ 23rd	Pe	18 30 50	...	...	...	Do.
	F	19 6 0	...	...	...	
„ 24th	Pe	4 26 44	...	...	...	
	M	4 33 5	11	4	...	
	F	4 56 0	...	...	...	
„ 24th	Pe	4 26 44	...	...	...	
	M	4 32 44	13	...	3	
	F	5 1 0	...	...	...	
„ 24th	Pe	5 21 16	...	...	...	Feeble shock.
	F	5 49 0	...	...	...	
„ 24th	Pe	5 21 16	...	...	...	Do
	F	6 2 0	...	...	...	
„ 24th	P	6 42 18	...	...	...	
	S	6 51 58	...	...	...	
	L	7 8 14	...	...	...	
	M	Movements small.				
	F	9 16 0	...	...	...	
„ 24th	P	6 42 18	...	...	...	
	S	6 51 58	...	...	...	
	L	7 8 14	...	...	...	
	M	7 20 12	16	...	5	
	F	9 29 0	...	...	...	
„ 24th	P	23 41 20	...	...	...	Very feeble shock.
„ 25th	F	0 4 0	...	...	...	
„ 24th	P	23 41 20	...	...	...	Do.
25th	F	0 6 0	...	...	...	
1932.		H. M. S.				
Dec. 25th	P	2 10 23	...	...	...	
	S	2 15 17	...	...	...	
	L	2 19 2	...	...	...	
	M	2 24 3	15	371	...	
	F	Mixed up with the next shock.				
„ 25th	P	2 10 23	...	...	...	
	S	2 15 17	...	...	...	
	L	2 19 2	...	...	...	
	M	2 24 43	15	...	268	
	F	Mixed up with the next shock.				
„ 25th	P	6 19 0	...	...	...	Feeble shock.
	M	6 27 46	9	3	...	
	F	6 57 0	...	...	...	
„ 25th	P	6 19 0	...	...	...	Do.
	M	6 26 56	11	...	2	
	F	6 49 0	...	...	...	
„ 25th	Pe	7 55 20	...	...	...	Do.
	M	8 18 28	10	2	...	
	F	8 38 0	...	...	...	
„ 25th	Pe	7 55 20	...	...	...	Do
	M	8 18 3	11	...	2	
	F	8 37 0	...	...	...	
„ 25th	Pe	11 24 43	...	...	...	Do.
	M	11 37 36	7	2	...	
	F	11 57 0	...	...	...	
„ 25th	Pe	11 24 43	...	...	...	Do.
	M	11 37 55	8	...	1	
	F	11 50 0	...	...	...	
„ 25th	P	12 32 5	...	...	...	
	M	12 44 50	10	3	...	
	F	13 6 0	...	...	...	
„ 25th	P	12 32 5	...	...	...	
	M	12 44 58	9	...	2	
	F	13 12 0	...	...	...	
„ 25th	e	23 33 0	...	...	...	Tremors.
	f	23 43 0	...	...	...	
„ 25th	e	23 33 0	...	...	...	Do.
	f	23 43 0	...	...	...	
„ 26th	Pe	7 55 42	...	...	...	Feeble shock.
	F	8 16 0	...	...	...	
1932.		H. M. S.				
Dec. 26th	Pe	7 55 42	...	...	...	Feeble shock.
	F	8 18 0	...	...	...	
„ 26th	P	8 17 24	...	...	...	Do.
	F	8 35 0	...	...	...	
„ 26th	P	8 17 24	...	...	...	Do.
	F	8 35 0	...	...	...	
„ 26th	P	9 12 42	...	...	...	Do
	F	9 50 0	...	...	...	
„ 26th	P	9 12 42	...	...	...	Do
	F	9 50 0	...	...	...	
„ 26th	e	19 18 0	...	...	...	Tremors.
	f	19 41 0	...	...	...	
„ 26th	e	19 18 0	...	...	...	Do.
	f	19 38 0	...	...	...	
„ 26th	e	19 58 0	...	...	...	Do.
	f	20 11 0	...	...	...	
„ 26th	e	19 58 0	...	...	...	Do.
	f	20 13 0	...	...	...	
„ 26th	P	21 23 15	...	...	...	
	S	21 29 58	...	...	...	
	L	21 39 19	...	...	...	
	F	22 17 0	...	...	...	
„ 26th	P	21 23 15	...	...	...	
	S	21 29 58	...	...	...	
	L	21 39 19	...	...	...	
	F	22 19 0	...	...	...	
	P	22 41 21	...	...	...	Very feeble shock.
	F	23 0 0	...	...	...	
„ 26th	P	22 41 21	...	...	...	Do
	F	23 0 9	...	...	...	
„ 27th	P	23 32 27	...	...	...	Do.
	F	23 54 0	...	...	...	
„ 27th	P	23 32 27	...	...	...	Do.
	F	23 54 0	...	...	...	
„ 28th	e	0 46 0	...	...	...	Tremors.
	f	1 3 0	...	...	...	

TABLE E 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.					1932.		H. M. S.					1932.		H. M. S.				
	A_E							A_E							A_E					
Dec. 28th	e	0 46 0	...	...	...	Tremors.	Dec. 28th	e	16 21 0	...	...	...	Tremors.	Dec. 31st	e	1 48 0	...	...	...	Tremors.
	f	1 1 0	...	...	...			f	16 32 0	...	...	...			f	2 8 0	...	...	...	
	A_N							A_N							A_N					
,, 28th	P	8 36 43	...	...	...	Feeble shock.	,, 30th	e	0 32 0	...	...	...	Do.		P	6 41 13	...	...	...	
	F	9 3 0	...	...	...			f	0 51 0	...	...	...		,, 31st	S	6 49 30	...	...	...	
	A_E							A_E							L	7 1 51	...	...	...	
,, 28th	P	8 36 43	...	...	...	Do.	,, 30th	e	0 32 0	...	...	...	Do.		M	7 7 9	18	10	...	
	F	9 6 0	...	...	...			f	0 57 0	...	...	...			F	8 29 0	...	...	...	
	A_N							A_N							A_E					
,, 28th	P	10 44 47	...	...	...	Do.	,, 30th	P	21 29 35	...	...	...	Feeble shock.	,, 31st	P	6 41 13	...	...	...	
	F	11 7 0	...	...	...			F	21 59 9	...	...	...			S	6 49 30	...	...	...	
	A_E							A_E							L	7 1 51	...	...	...	
,, 28th	P	10 44 47	...	...	...	Do.	,, 30th	P	21 29 35	...	...	...	Do.		M	7 7 21	21	...	14	
	F	11 2 0	...	...	...			F	21 58 0	...	...	...			F	8 35 0	...	...	...	
	A_N							A_N												
,, 28th	e	16 21 0	...	...	...	Tremors.	,, 31st	e	1 48 0	...	...	...	Tremors							
	f	16 32 0	...	...	...			f	Lost in shifting time.											

B. N. BANERJI,

Meteorologist,

Bombay.

STATION—CALCUTTA (ALIPORE).

$\varphi = 22° 32'$ N ; $\lambda = 88° 20'$ E ; $h = 7{\cdot}1$ metres for Milne Shaw Seismograph. *Subsoil*—Alluvial.
$h = 6{\cdot}4$ meters for Omori Seismographs.

Apparatus.—(*i*) Milne Shaw Seismograph (A_N Instrument).
(*ii*) Omori Ewing Seismograph (A_N Instrument).
(*iii*) Omori Ewing Seismograph (A_E Instrument).

TABLE E. 3.

	V	To	G	$\frac{1}{To^2}$
Milne Shaw A_N	250	12 Secs.		
Omori A_E	29	29 Secs.		
Omori A_N	29	30 Secs.	20 : 1	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance Δ (km.)	Remarks.
1932.		H. M. S.					
	A_N	Milne Shaw Seismograph.					
Jan. 3rd	P	7 52 32	5	...	...	1100	Slight shock.
	S	7 54 32	6	...	...	...	
	L	7 55 17	10	...	...	...	
	F	Uncertain.	...	...	...	...	
„ 4th	P	11 56 34	5	...	...	1600	Do.
	S	11 59 13	6	...	...	...	
	L	12 0 25	8	...	...	...	
	F	Uncertain.	...	...	...	...	
„ 5th	P	2 19 42	5	...	...	14500	Do.
	S	2 33 28	6	...	...	...	
	L	3 9 28	20	...	...	...	
	F	4 6 39	...	...	...	...	
„ 5th	P	5 29 46	4	...	...	450	Do.
	S	5 30 34	6	...	...	...	
	L	5 30 52	8	...	...	...	
	F	5 48 52	...	...	...	...	
„ 6th	P	17 4 11	6	...	...	4200	Do.
	S	17 10 11	8	...	...	...	
	L	17 16 35	20	...	...	...	
	F	17 36 35	...	...	...	...	
„ 8th	P	5 56 54	5	...	...	1500	Do.
	S	5 59 24	6	...	...	...	
	L	6 0 29	8	...	...	...	
	F	6 27 44	...	...	...	...	
„ 9th	P	10 32 10	4	...	...	3200	Do.
	S	10 37 10	8	...	...	...	
	L	10 40 52	14	...	...	...	
	M	10 43 59	...	...	...	...	
	F	12 3 22	...	...	...	...	
1932.		H. M. S.					
	A_E	Omori Ewing (Seismograph.)					
Jan. 11th	P	9 16 21	4	...	...	700	Slight shock.
	S	9 17 40	6	...	...	...	
	L	9 18 1	8	...	...	...	
	F	Uncertain.	...	...	...	...	
	A_N	Omori Ewing (Seismograph.)					
„ 11th	P	9 16 14	4	...	...	700	
	S	9 17 32	6	...	...	...	
	L	9 17 53	8	...	...	...	
	F	Uncertain.	...	...	...	...	
	A_N	Milne Shaw (Seismograph.)					
„ 13th	P	6 56 41	4	...	...	700	Slight shock.
	S	6 57 51	6	...	...	...	
	L	6 58 11	8	...	...	...	
	F	7 15 23	...	...	...	...	
„ 13th	P	16 38 15	6	...	...	7300	Do.
	S	16 47 1	8	...	...	...	
	L	17 12 7	15	...	...	...	
	F	17 24 37	...	...	...	...	
„ 18th	P	20 29 51	7	...	...	3300	Do.
	S	20 34 48	8	...	...	...	
	L	20 39 19	15	...	...	...	
	F	21 19 19	...	...	...	...	
„ 19th	P	13 35 38	4	...	...	450	Do.
	S	13 36 26	Uncertain.	...	...	...	
	L	13 36 50	7	...	...	...	
	F	13 51 50	...	...	...	...	
	A_E	Omori Ewing (Seismograph.)					
„ 21st	P	13 47 10	Uncertain.	...	...	300	Do.
	S	13 47 46	„	...	...	...	
	L	13 48 5	„	...	...	...	
	F	Uncertain.	...	...	...	...	
1932.		H. M. S.					
	A_N	Omori Ewing (Seismograph).					
Jan. 21st	P	13 47 7	Uncertain	...	...	300	Slight shock.
	S	13 47 41	„	...	...	...	
	L	13 48 3	„	...	...	...	
	F	Uncertain.	...	...	...	...	
	A_N	Milne—Shaw (Seismograph).					
„ 23rd	P	17 22 28	5	...	...	500	Do.
	S	17 23 24	6	...	...	...	
	L	17 23 40	8	...	...	...	
	F	17 43 40	...	...	...	...	
„ 24th	P	3 55 59	4	...	...	8700	Do.
	S	4 5 59	8	...	...	...	
	L	4 25 11	18	...	...	...	
	F	6 49 11	...	...	...	...	
„ 26th	P	4 56 35	4	...	...	400	Do.
	S	4 57 51	Uncertain.	...	...	...	
	L	4 58 5	6	...	...	...	
	F	5 20 5	...	...	...	...	
„ 29th	P	13 51 41	6	...	...	6700	Moderate shock.
	S	13 59 54	10	...	...	...	
	L	14 12 27	20	...	...	...	
	M	14 14 27	...	46	...	...	
	F	16 8 42	...	...	...	...	
„ 30th	P	3 18 51	6	...	...	5100	Slight shock.
	S	3 25 46	10	...	...	...	
	L	3 38 50	15	...	...	...	
	F	4 50 52	...	...	...	...	
Feb. 1st	P	7 51 52	5	...	...	4200	Do.
	S	7 57 42	6	...	...	...	
	L	8 4 7	10	...	...	...	
	F	8 24 37	...	...	...	...	

TABLE E 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). A_N	Amplitude (μ). A_E	Distance Δ (Km.).	Remarks.
1932.		H. M. S					
Feb. 3rd	A_N	Milne Shaw Seismograph.					
	P	6 28 45	2	...	...	13800	
	S	6 42 0	4	...	...	...	
	L	7 18 15	15	...	...	...	
	F	Uncertain	...	...	...	...	
,, 4th	P	21 25 32	1	...	...	2400	Slight shock.
	S	21 29 32	Uncertain.	...	...	...	
	L	21 32 0	,,	...	...	...	
	M	21 33 30	...	...	...	...	
	F	21 55 0	...	...	...	...	
,, 5th	P	13 45 44	4	...	...	1200	Moderate shock.
	S	13 47 57	6	...	...	...	
	L	13 48 49	8	...	...	...	
	M	13 51 49	...	73	...	...	
	F	14 31 59	...	...	...	...	
,, 7th	P	18 29 15	2	...	...	550	Slight shock.
	S	18 30 35	3	...	...	...	
	L	18 30 31	4	...	...	...	
	F	18 32 31	...	...	...	...	
,, 7th	P	21 28 32	Uncertain.	...	...	550	Do.
	S	21 29 32	,,	...	...	...	
	L	21 29 52	4	...	...	...	
	F	21 32 57	...	...	...	...	
,, 12th	P	1 4 53	6	...	...	2800	Do.
	S	1 9 31	8	...	...	...	
	L	1 12 31	10	...	...	...	
	M	1 14 31	...	19	...	...	
	F	2 35 1	...	...	...	...	
,, 14th	P	2 47 36	3	...	...	1700	Slight.
	S	2 50 22	4	...	...	...	
	L	2 51 56	6	...	...	...	
	F	3 2 58	...	...	...	...	
,, 14th	P	15 54 16	2	...	...	400	Slight shock.
	S	15 55 1	Uncertain	...	...	...	
	L	15 55 10	3	...	...	...	
	F	16 4 55	...	...	...	...	
,, 14th	P	23 21 17	6	...	...	3800	Do.
	S	23 27 47	7	...	...	...	
	L	23 33 29	12	...	...	...	
,, 15th	M	1 45 49	...	17	...	...	
	F	3 14 39	...	...	...	...	
,, 16th	P	14 14 41	6	...	...	5700	Do.
	S	14 21 56	8	...	...	...	
	L	14 32 56	15	...	...	...	
	F	15 52 41	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). A_N	Amplitude (μ). A_E	Distance Δ (Km.).	Remarks.
1932.		H. M. S.					
Feb. 20th	A_N	Milne Shaw Seismograph.					
	P	18 45 31	2	...	...	900	Slight shock.
	S	18 47 12	5	...	...	...	
	L	18 47 49	7	...	...	...	
	F	Uncertain.	...	...	...	...	
,, 21st	P	13 32 28	5	...	...	800	Do.
	S	13 35 21	8	...	...	...	
	L	13 36 56	12	...	...	...	
	M	13 39 56	...	11	...	...	
	F	14 21 26	...	...	...	...	
,, 23rd	P	0 31 33	3	...	...	9500	Do.
	S	0 42 8	7	...	...	...	
	L	1 3 26	15	...	...	...	
	M	1 7 11	...	14	...	...	
	F	... ...	...	...	,,	...	
, 28th	P	3 29 42	2	...	...	100	Do.
	S	Uncertain	...	...	...	...	
	L	3 30 2	6	...	...	...	
	F	Uncertain	...	...	...	...	
Mar. 4th	P	23 22 49	5	...	...	1400	Do.
	S	23 25 19	7	...	...	...	
	L	23 26 31	8	...	...	...	
	M	23 29 16	...	39	...	...	
,, 5th.	F	0 21 46	...	...	...	...	
,, 6th	P	0 19 14	2	...	...	700	Moderate shock.
	S	0 20 39	2	...	...	...	
	L	0 20 58	5	...	...	...	
	M	0 22 58	...	117	...	...	
	F	1 3 48	...	...	...	...	
,, 6th	P	21 47 15	2	...	...	800	Slight shock.
	S	21 48 27	3	...	...	...	
	L	21 49 9	5	...	...	...	
	M	21 51 11	...	24	...	...	
	F	22 25 12	...	...	...	...	
,, 10th	P	5 39 52	4	...	...	11800	Do.
	S	5 52 2	6	...	...	...	
	L	6 21 37	1	...	...	...	
	F	Uncertain	...	...	...	...	
,, 12th	P	13 31 55	2	...	...	2600	Do.
	S	13 36 0	7	...	...	...	
	L	13 38 29	12	...	...	...	
	F	Uncertain	...	...	...	...	
,, 14th	P	22 59 48	5	...	...	15000	Do.
	S	23 13 28	8	...	...	...	
	L	23 54 51	15	...	...	...	
,, 15th	F	1 5 51	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). A_N	Amplitude (μ). A_E	Distance Δ (Km.).	Remarks.
1932.		H. M. S.					
Mar. 15th	A_N	Milne Shaw Seismograph.					
	P	4 42 22	4	...	...	5900	Slight shock.
	S	4 50 0	6	...	...	...	
	L	5 1 7	12	...	...	...	
	F	5 57 7	...	...	...	...	
,, 18th	P	5 26 14	5	...	...	5100	Do.
	S	5 33 2	7	...	...	...	
	L	5 42 39	10	...	...	...	
	F	6 44 39	...	...	...	...	
,, 19th	P	23 11 41	3	...	...	6400	Do.
	S	23 19 48	6	...	...	...	
	L	23 31 57	10	...	...	...	
,, 20th	F	0 18 18	...	...	...	...	
,, 24th	P	16 9 10	2	...	...	400	Moderate shock (felt locally).
	S	16 9 55	Uncertain.	...	...	...	
	L	16 10 7	6	...	...	...	
	M	Uncertain	...	...	...	...	
	F	16 53 59	...	...	...	...	
,, 25th	P	4 32 43	2	...	...	...	
	S	4 34 13	3	...	...	...	
	L	4 34 50	6	...	...	...	
	M	4 35 50	...	27	...	...	
	F	5 18 50	...	...	...	...	
,, 26th	A_E	Omori Ewing Seismograph.					
	P	0 11 9	2	...	...	9100	Moderate shock.
	S	0 21 32	4	...	...	...	
	L	0 41 2	8	...	...	...	
	M	0 43 59	...	...	...	...	
	F	Uncertain	...	...	...	...	
,, 26th	A_N	Milne Shaw Seismograph.					
	P	10 1 27	5	...	...	5300	Do.
	S	10 8 27	7	...	...	...	
	L	10 24 39	10	...	...	...	
	M	10 25 9	...	31	...	...	
	F	11 44 27	...	...	...	...	
,, 27th	P	8 45 36	3	...	...	600	Great shock.
	S	8 46 36	4	...	...	...	
	L	8 46 59	6	...	...	...	
	M	8 51 29	...	186	...	...	
	F	9 42 21	...	...	...	...	
,, 28th	P	0 42 8	2	...	...	3500	Slight shock.
	S	0 47 23	3	...	...	...	
	L	0 52 13	4	...	...	...	
	F	Uncertain	...	...	...	...	

TABLE E 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). $\frac{A_N}{A_E}$	Distance Δ (Km.).	Remarks.
1932.		H. M. S.				
	A_N	Milne Shaw Seismograph.				
Mar. 30th	P	15 16 52	2	... ...	3500	Slight shock.
	S	15 22 22	4	... ...	...	
	L	15 26 32	6	... ...	...	
	F	16 23 12	...	... ...	...	
April 3rd	P	20 56 27	4	... ...	9300	Do.
	S	21 6 50	8	... ...	...	
	L	21 28 12	15	... ...	...	
	F	23 0 12	...	... ...	...	
,, 4th	P	19 21 47	6	... ...	3800	Do.
	S	19 27 21	8	... ...	...	
	L	19 32 27	10	... ...	...	
	F	20 51 50	...	... ...	...	
,, 10th	P	16 53 7	Uncertain.	... ...	500	Do.
	S	16 53 54	,,	... ...	...	
	L	16 54 12	8	... ...	...	
	F	17 11 47	...	... ...	...	
,, 13th	P	0 3 39	5	... ...	4900	Do.
	S	0 10 24	7	... ...	...	
	L	0 17 39	10	... ...	...	
	F	Uncertain	...	... ...	...	
, 18th	P	11 28 43	6	... ...	2300	Do.
	S	11 32 24	8	... ...	...	
	L	11 34 55	10	... ...	...	
	M	11 35 55	...	33 ...	...	
	F	12 22 24	...	... ...	...	
,, 22nd	P	5 5 14	3	... ...	2900	Do.
	S	5 9 29	5	... ...	...	
	L	5 12 59	8	... ...	...	
	F	Uncertain	...	... ...	...	
,, 30th	P	10 57 9	Uncertain.	... ...	2200	Do.
	S	11 0 51	6	... ...	...	
	L	11 3 3	8	... ...	...	
	F	11 19 1	...	... ...	...	
	A_E	Omori Ewing Seismograph.				
May 14th	P	13 19 11	14	... ...	3800	Severe shock.
	S	13 24 51	18	... ...	...	
	EL	13 27 15	25	... ...	...	
	M	13 28 45	...	Uncertain. ...	...	
	F	16 31 45	...	... ...	...	
	A_N					
,, 14th	P	13 19 1	12	... ...	3800	Do.
	S	13 24 46	18	... ...	...	
	L	13 29 10	24	... ...	...	
	M	13 30 40	...	2537 ...	...	
	F	...	...	... ...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). $\frac{A_N}{A_E}$	Distance Δ (Km.).	Remarks.
1932.		H. M. S.				
	A_E	Omori Ewing Seismograph.				
May 17th	P	13 49 51	Uncertain.	... ...	600	Slight shock.
	S	13 50 55	3	... ...	...	
	L	13 51 13	4	... ...	...	
	F	14 3 39	...	... ...	...	
	A_N	Omori Ewing Seismograph.				
,, 17th	P	13 49 53	Uncertain.	... ...	600	Do.
	S	13 50 59	3	... ...	...	
	L	13 51 19	4	... ...	...	
	F	14 3 39	...	... ...	...	
	A_N	Milne Shaw Seismograph.				
,, 18th	P	19 9 15	7	... ...	6200	Do.
	S	19 17 5	14	... ...	...	
	L	19 28 50	20	... ...	...	
	F	21 40 5	...	... ...	...	
,, 20th	P	19 30 11	3	... ...	2500	Do.
	S	19 34 18	6	... ...	...	
	L	19 36 48	8	... ...	...	
	F	Uncertain	...	... ...	...	
,, 21st		10 25 53	5	... ..	13900	Great shock.
	S	10 39 13	10	... ...	...	
	L	11 15 40	22	... ...	...	
	M	11 30 25	...	118 ...	...	
	F	12 30 25	...	... ...	...	
,, 26th	P	5 14 48	6	... ...	900	Moderate shock.
	S	5 16 18	7	... ...	...	
	L	5 16 58	8	... ...	...	
	M	5 19 43	...	30 ...	...	
	F	Uncertain	...	... ...	...	
,, 26th	P	16 22 49	4	... ...	3500	Do.
	S	16 28 9	6	... ...	...	
	L	16 32 49	8	... ...	...	
	M	16 33 19	...	28 ...	...	
	F	19 21 34	...	... ...	...	
,, 28th	P	2 28 15	4	... ...	4200	Do.
	S	2 34 45	6	... ...	...	
	L	2 41 5	25	... ...	...	
	M	2 46 0	...	219 ...	...	
	F	3 36 12	...	... ...	...	
June 3rd	P	10 55 36	5	... ...	16500	Very great shock.
	S	11 9 36	10	... ...	...	
	L	11 56 4	25	... ...	...	
	M	12 6 34	...	930 ...	...	
	F	14 43 4	...	... ...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). $\frac{A_N}{A_E}$	Distance Δ (Km.).	Remarks.
1932.		H. M. S.				
	A_N	Milne Shaw Seismograph.				
June 6th	P	1 33 17	Uncertain.	... ...	300	Very slight shock.
	S	1 33 51	2	... ...	...	
	L	1 34 6	4	... ...	...	
	F	Uncertain	...	... ...	...	
,, 10th	P	20 28 8	3	... ...	2200	Slight shock.
	S	20 32 8	6	... ...	...	
	L	20 34 23	7	... ...	...	
	F	Uncertain	...	... ...	...	
,, 11th	P	8 49 24	3	... ...	2100	Do.
	S	8 53 1	4	... ...	...	
	L	8 54 54	5	... ...	...	
	F	Uncertain	...	... ...	...	
,, 13th	P	21 11 49	Uncertain.	... ...	2300	Do.
	S	21 15 33	,,	... ...	...	
	L	21 17 53	7	... ...	...	
	F	Uncertain	...	... ...	...	
,, 14th	P	6 5 23	Uncertain.	... ...	2300	Do.
	S	6 10 26	3	... ...	...	
	L	6 14 43	5	... ...	...	
	F	Uncertain	...	... ...	...	
,, 16th	P	1 28 27	3	... ...	1500	Do.
	S	1 30 51	4	... ...	...	
	L	1 32 29	7	... ...	...	
	F	Uncertain	...	... ...	...	
,, 18th	P	10 32 36	6	... ...	16300	Great shock.
	S	10 46 40	8	... ...	...	
	L	11 32 24	20	... ...	...	
	M	11 38 9	...	276 ...	...	
	F	15 6 9	...	... ...	...	
,, 21st	P	23 8 22	2	... ...	1500	Slight shock.
	S	23 11 2	5	... ...	...	
	L	23 12 32	8	... ...	...	
	F	Uncertain	...	... ...	...	
,, 22nd	P	0 51 35	3	... ...	4100	Do.
	S	0 57 23	5	... ...	...	
	L	1 3 48	15	... ...	...	
	F	Uncertain	...	... ...	...	
,, 22nd	P	13 20 48	5	... ...	12500	Do.
	S	13 33 23	8	... ...	...	
	L	4 5 18	12	... ...	...	
	F	15 42 3	...	... ...	...	
,, 26th	P	19 27 58	2	... ...	7200	Do.
	S	19 36 35	3	... ...	...	
	L	19 51 50	7	... ...	...	
	F	Uncertain	...	... ...	...	

TABLE E 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). $\frac{A_N}{A}$	Distance (Km.).	Remarks.
1932.		H. M. S.		A		
		N Milne Shaw. Seismograph.				
July 3rd	P	4 38 34	Uncertain.	... ...	1200	Slight shock.
	S	4 40 36	,,	... ...	...	
	L	4 41 42	8	... ...	...	
	F	Uncertain	...	... ...	...	
,, 5th	P	11 1 15	4	... ...	3500	Do.
	S	11 6 35	6	... ...	...	
	L	11 11 35	8	... ...	...	
	F	Uncertain	...	... ...	...	
,, 9th	P	12 27 33	4	... ...	1000	Do.
	S	12 29 26	6	... ...	...	
	L	12 30 11	8	... ...	...	
	F	Uncertain	...	... ...	...	
,, 9th	P	13 22 23	Uncertain.	... ...	800	Do.
	S	13 23 46	2	... ...	...	
	L	13 24 9	6	... ...	...	
	F	Uncertain	...	... ...	...	
,, 9th	P	14 33 34	Uncertain.	... ...	1100	Do.
	S	14 35 4	3	... ...	...	
	L	14 35 44	4	... ...	...	
	F	Uncertain	...	... ...	...	
,, 21st	P	13 59 18	Uncertain.	... ...	2600	Do.
	S	14 3 28	7	... ...	...	
	L	14 6 24	8	... ...	...	
	F	Uncertain	...	... ...	...	
Aug. 1st	P	6 4 17	2	... ...	300	Do.
	S	6 4 55	3	... ...	...	
	L	6 5 13	5	... ...	...	
	M	6 6 13	...	40 ...	...	
	F	7 8 29	...	... ...	...	
,, 2nd	P	4 29 47	Uncertain.	... ...	3100	Do.
	S	4 34 34	4	... ...	...	
	L	4 38 27	6	... ...	...	
	F	Uncertain	...	... ...	...	
,, 7th	P	23 27 44	Uncertain.	... ...	1900	Do.
	S	23 31 9	,,	... ...	...	
	L	23 32 41	6	... ...	...	
	F	Uncertain	...	... ...	...	
,, 12th	P	3 35 54	4	... ...	8900	Do.
	S	3 45 57	6	... ...	...	
	L	4 5 48	15	... ...	...	
	F	Uncertain	...	... ...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). $\frac{A_N}{A_E}$	Distance (Km.).	Remarks.
1932.		H. M. S.		A		
		N Milne Shaw Seismograph.				
Aug. 14th	P	4 41 39	4	... ...	550	Very great shock felt at Calcutta.
	S	Uncertain	...	... ...	...	
	L	4 43 1	8	... ...	...	
	M	4 45 31	...	60 ...	...	
	eF	7 13 31	...	... ...	...	
,, 14th	P	7 12 10	4	... ...	800	Slight shock.
	S	7 13 32	6	... ...	...	
	L	7 14 6	8	... ...	...	
	F	7 41 32	...	... ...	...	
		Omori Ewing Seismograph EW.			Instt.	
,, 21st	P	4 21 36	2	... ...	3500	Do.
	S	4 26 54	4	... ...	...	
	L	4 31 24	6	... ...	...	
	F	5 9 9	...	... ...	...	
		Milne Shaw Seismograph A_N			Instt.	
,, 21st	P	18 50 20	2	... ...	2000	Do.
	S	18 54 5	4	... ...	...	
	L	18 56 20	6	... ...	...	
	F	Uncertain	...	... ...	...	
,, 22nd	P	11 20 53	3	... ...	4300	Do.
	S	11 26 58	5	... ...	...	
	L	11 33 28	7	... ...	...	
	eF	12 21 48	...	... ...	...	
,, 24th	P	12 19 23	3	... ...	3700	Do.
	S	12 25 8	5	... ...	...	
	L	12 30 8	8	... ...	...	
	eF	13 8 18	...	... ...	...	
Sept. 3rd	P	12 1 38	3	... ...	5900	Do.
	S	12 17 58	4	... ...	...	
	L	12 29 44	6	... ...	...	
	F	Uncertain	...	... ...	...	
,, 8th	P	7 37 0	3	... ...	1800	Do.
	S	7 40 5	5	... ...	...	
	L	7 41 28	7	... ...	...	
	F	8 33 3	...	... ...	...	
,, 9th	P	13 47 47	3	... ...	2600	Do.
	S	13 51 52	5	... ...	...	
	L	13 54 27	8	... ...	...	
	F	14 56 27	...	... ...	...	
,, 11th	P	14 18 14	3	... ...	2600	Do.
	S	14 22 19	5	... ...	...	
	L	14 24 59	7	... ...	...	
	F	Uncertain	...	... ...	...	
,, 15th	P	11 18 35	5	... ...	4200	Do.
	S	11 24 35	6	... ...	...	
	L	11 30 20	9	... ...	...	
	F	Uncertain	...	... ...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). $\frac{A_N}{A_E}$	Distance (Km.).	Remarks.
1932.		H. M. S.		A		
		Milne Shaw Seismograph N Instt.				
Sept. 15th	P	14 28 8	6	... ...	7500	Slight shock.
	S	14 37 2	9	... ...	...	
	L	14 53 8	15	... ...	...	
	eF	16 57 28	...	... ...	...	
,, 23rd	P	14 30 30	3	... ...	4200	Moderate shock.
	S	14 36 38	6	... ...	...	
	L	14 42 23	10	... ...	...	
	M	Uncertain	...	... ...	...	
	F	15 57 31	...	... ...	...	
,, 26th	P	19 30 23	5	... ...	6200	Do.
	S	19 38 11	8	... ...	...	
	L	19 50 51	12	... ...	...	
	M1	19 55 11	...	38 ...	...	
	M2	20 0 21	...	44 ...	...	
	F	Uncertain	...	... ...	...	
,, 29th	P	4 7 16	3	... ...	6600	Slight shock.
	S	4 15 16	4	... ...	...	
	EL	4 28 46	6	... ...	...	
	F	Uncertain	...	... ...	...	
,, 29th	P	17 55 46	3	... ...	6600	Do.
	S	18 3 46	4	... ...	...	
	L	18 17 16	6	... ...	...	
	F	Uncertain	...	... ...	...	
Oct. 1st	P	20 24 28	2	... ...	1400	Do.
	S	20 55 51	3	... ...	...	
	L	20 28 0	4	... ...	...	
	EF	20 38 31	...	... ...	...	
,, 2nd	P	3 18 34	5	... ...	14400	Do.
	S	3 32 16	8	... ...	...	
	L	4 12 41	18	... ...	...	
	EF	5 15 53	...	... ...	...	
,, 9th	P	12 59 55	4	... ...	8400	Do.
	S	13 5 2	6	... ...	...	
	L	13 9 10	9	... ...	...	
	F	13 41 52	...	... ...	...	
,, 11th	EP	19 20 38	3	... ...	1400	Do.
	S	19 23 16	5	... ...	...	
	L	19 24 9	7	... ...	...	
	F	Uncertain	...	... ...	...	
,, 13th	EP	13 56 28	2	... ...	600	Do.
	S	13 57 28	3	... ...	...	
	L	13 57 46	3	... ...	...	
	EF	14 5 21	...	... ...	...	
,, 14th	P	2 0 1	2	... ...	600	Do.
	S	2 0 54	3	... ...	...	
	L	2 1 16	4	... ...	...	
	F	Uncertain	...	... ...	...	

TABLE E 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). A N	Amplitude (μ). A E	Distance △ (Km.).	Remarks.
1932.		H. M. S					
		Milne Shaw Seismograph A N Instt.					
Oct. 16th	P	12 20 58	3	...	...	7300	Slight shock.
	S	12 31 21	5	...	...	...	
	EL	12 52 31	9	...	...	...	
	F	13 56 11	...	...	...	...	
,, 23rd	P	0 58 49	3	...	...	1400	Do.
	S	Uncertain	Uncertain.	...	...	...	
	L	1 2 34	5	...	...	...	
	F	Uncertain	...	...	...	...	
,, 23rd	P	21 33 22	2	...	...	4200	Do.
	S	21 39 15	4	...	...	...	
	L	21 45 15	7	...	...	...	
	EF	22 16 57	...	...	...	...	
,, 25th	EP	17 14 45	2	...	...	1900	Do.
	S	17 18 0	4	...	...	...	
	L	17 20 3	6	...	...	...	
	F	17 44 35	...	...	...	...	
,, 27th	P	23 39 45	2	...	...	500	Do.
	S	23 40 31	3	...	...	...	
	L	23 40 46	4	...	...	...	
	F	Uncertain	...	...	...	...	
,, 29th	P	11 13 44	4	...	...	2400	Do.
	S	11 17 39	6	...	...	...	
	L	11 20 19	10	...	...	...	
	EF	12 15 9	...	...	...	...	
,, 30th	P	20 58 9	5	...	...	9300	Do.
	S	21 3 34	7	...	...	...	
	L	21 29 54	9	...	...	...	
	F	Uncertain	...	...	...	...	
Nov. 3rd	P	19 52 33	3	...	...	2700	Do.
	S	19 57 3	5	...	...	...	
	L	19 59 53	7	...	...	...	
	F	20 24 58	...	...	...	...	
,, 9th	P	18 31 26	3	...	...	500	Moderate shock.
	S	18 32 8	4	...	...	...	
	L	18 32 34	6	...	...	...	
	M	18 33 4	...	82	...	...	
	EF	19 10 14	...	...	...	...	
,, 10th	P	13 16 11	2	...	...	600	Slight shock.
	S	13 17 11	3	...	...	...	
	L	13 17 26	5	...	...	...	
	F	Uncertain	...	...	...	...	
,, 11th	P	1 3 14	2	...	...	600	Do.
	S	1 4 14	3	...	...	...	
	L	1 4 29	5	...	...	...	
	F	Uncertain	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). A N	Amplitude (μ). A E	Distance △ (Km.).	Remarks.
1932.		H. M. S.					
		Milne Shaw Seismograph A N Instt.					
Nov. 13th	P	4 55 16	5	...	...	5900	Slight shock.
	S	5 2 53	6	...	...	...	
	L	Uncertain	...	...	...	...	
	F	,,	...	...	...	...	
,, 16th	P	6 23 16	2	...	...	300	Do.
	S	6 23 54	3	...	...	...	
	L	6 24 9	4	...	...	...	
	F	Uncertain	...	...	...	...	
,, 18th	P	13 55 1	2	...	...	3000	Do.
	S	13 59 46	3	...	...	...	
	L	14 3 16	5	...	...	...	
	F	Uncertain	...	...	...	...	
,, 18th	EP	3 47 24	3	...	...	3000	Do.
	S	3 47 54	5	...	...	...	
	L	3 55 39	7	...	...	...	
	EF	4 33 4	...	...	...	...	
,, 19th	EP	21 2 20	3	...	...	1000	Do.
	S	21 4 8	5	...	...	...	
	L	21 4 46	6	...	...	...	
	EF	21 16 56	...	...	...	...	
,, 21st	P	14 49 44	2	...	...	600	Do.
	S	14 50 44	3	...	...	...	
	L	14 51 6	4	...	...	...	
	eF	15 5 51	...	...	...	...	
,, 22nd	P	15 0 7	2	...	...	2200	Do.
	S	15 3 59	3	...	...	...	
	L	15 6 6	5	...	...	...	
	F	Uncertain	...	...	...	...	
,, 26th	P	4 31 26	3	...	...	5100	Do.
	S	4 38 19	6	...	...	...	
	EL	4 46 19	7	...	...	...	
	F	5 36 49	...	...	...	...	
,, 30th	EP	16 59 47	3	...	...	1300	Do.
	S	17 2 2	4	...	...	...	
	L	17 3 2	6	...	...	...	
	EF	17 20 32	...	...	...	...	
Dec. 4th	P	8 17 49	5	...	...	4100	Great shock.
	S	8 23 35	8	...	...	...	
	L	8 29 55	18	...	...	...	
	M	8 33 25	...	248	...	...	
	F	Uncertain	...	...	...	...	
,, 7th	P	16 41 53	3	...	...	1400	Slight shock.
	ES	16 44 17	5	...	...	...	
	L	16 45 25	7	...			
	F	Uncertain	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). A N	Amplitude (μ). A E	Distance △ (Km.).	Remarks.
1932.		H. M. S.					
		Milne Shaw Seismograph A N Instt.					
Dec. 8th	EP	15 24 15	4	...	...	8000	Slight shock.
	S	15 33 31	6	...	...	...	
	L	15 49 8	11	...	...	...	
	F	Uncertain	...	...	...	...	
,, 11th	P	4 29 24	4	...	...	1600	Do.
	S	4 32 16	5	...	...	...	
	L	4 33 31	8	...	...	...	
	EF	5 35 41	...	...	...	...	
,, 15th	EP	19 38 28	4	...	...	3400	Do.
	S	19 43 43	6	...	...	...	
	L	19 48 13	8	...	...	...	
	F	20 30 24	...	...	...	...	
,, 21st	P	4 50 38	2	...	...	500	Do.
	S	4 51 38	3	...	...	...	
	L	4 51 54	5	...	...	...	
	EF	5 12 14	...	...	...	...	
,, 21st	P	6 30 21	4	...	...	7300	Great shock.
	S	6 40 9	7	...	...	...	
	EL	6 54 57	12	...	...	...	
	M1	7 3 7	...	11	...	...	
	M2	7 12 7	...	11	...	...	
	M3	7 17 7	...	19	...	...	
	EF	8 46 27	...	...	...	...	
,, 24th	P	4 22 51	3	...	...	2600	Slight shock.
	S	4 26 51	5	...	...	...	
	L	4 29 57	7	...	...	...	
	F	4 57 15	...	...	...	...	
,, 24th	P	5 18 21	3	...	...	2600	Do.
	S	5 22 31	5	...	...	...	
	L	Uncertain	...	...	...	...	
	EF	5 48 31	...	...	...	...	
,, 24th	P	6 41 46	3	...	...	5000	Do.
	S	6 48 25	6	...	...	...	
	L	6 57 5	12	...	...	...	
	F	Uncertain	...	...	...	...	
		Omori Ewing Seismograph A E Instt.					
,, 25th	P	2 9 52	6	...	...	2100	Very great shock.
	S	2 13 21	11	...	...	...	
	L	2 15 21	22	...	...	...	
	M	Uncertain	...	...	...	...	
	F	Uncertain	...	...	...	...	
		Milne Shaw Seismograph A N Instt.					
,, 25th	EP	6 12 20	3	...	...	2900	Slight shock.
	S	6 16 57	5	...	...	...	
	L	6 20 29	7	...	...	...	
	EF	6 52 42	...	...	...	...	

TABLE E 3—*concld.*

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Ampli-tude (μ) A_N	Ampli-tude (μ) A_E	Distance Δ (Kms.).	Remarks.
1932.		H. M. S.					
		Milne Shaw Seismograph A_N Instt.					
Dec. 25th	P	12 27 1	3	...	...	3500	Slight shock.
	S	12 32 22	5	...	...	...	
	L	12 37 22	7	...	...	...	
	F	Uncertain	...	...	...	...	
,, 26th	EP	8 9 45	3	...	...	240	Do.
	S	8 10 7	5	...	...	...	
	L	8 10 19	Uncertain.	...	...	...	
	F	Uncertain	...	...	...	...	

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Ampli-tude (μ) A_N	Ampli-tude (μ) A_E	Distance Δ (Kms.).	Remarks.
1932.		H. M. S.					
		Milne Shaw Seismograph A_N Instt.					
Dec. 26th	P	19 48 18	3	...	...	2400	Slight shock.
	S	19 52 9	5	...	...	...	
	L	19 54 25	7	...	...	...	
	F	Uncertain	...	...	...	...	
,, 26th	P	21 15 56	3	...	...	2400	Do.
	S	21 19 58	5	...	...	...	
	L	21 22 10	7	...	...	...	
	F	Uncertain	...	...	...	...	

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Ampli-tude (μ) A_N	Ampli-tude (μ) A_E	Distance Δ (Kms.).	Remarks.
1932.		H. M. S.					
		Milne Shaw Seismograph A_N Instt.					
Dec. 28th	P	8 29 24	4	...	...	2600	Slight shock.
	S	8 33 32	6	...	...	...	
	L	8 36 9	8	...	...	...	
	F	Uncertain	...	...	...	...	
,, 30th	P	21 30 7	3	...	...	2600	Do.
	S	21 34 29	5	...	...	...	
	L	21 37 0	7	...	...	...	
	EF	21 56 40	...	...	...	...	
,, 31st	P	6 43 1	4	...	...	8000	Do.
	S	6 52 23	6	...	...	...	
	L	7 9 38	12	...	...	...	
	F	Uncertain	...	...	...	...	

S. N. SEN,
Meteorologist,
Calcutta.

STATION—KODAIKANAL.

$\varphi = 10° 13' 50''$; $\lambda = 77° 28' 00''$; $h = 2343$m. *Subsoil*—Rock.

Apparatus.—Milne Shaw Seismograph (E-W) *Damping ratio* 20 : 1. Installed January 1932.

TABLE E 4.

	V	To	$\frac{V_e}{To} \frac{1}{2}$
A_E	250	12	·0017

Date.	Phase.	Time. G. M. T.	Period (Sec.).	MAX. AMPLITUDE OF RECORD (MM.). A_E	REMARKS.
1932.		H. M. S.			
Jan. 17th	eP	8 8 21	...	...	Very feeble shock.
	F	8 11 00	...	...	
,, 17th	eP	8 37 26	...	...	Feeble shock.
	L	8 41 51	...	...	
	F	9 11 00	...	...	
Feb. 5th	Part of record lost and no time marks on what is left.				
,, 11th	No time marks.		...	...	Feeble shock.
,, 12th	No time marks.		...	6·0	
,, 14th	No time marks.		...	...	Feeble shock.
,, 14th	No time marks.		...	...	Do.
,, 14th-15th	No time marks.		...	8·4	A regular earthquake.
,, 16th	eP	14 7 19	...	...	
	S	14 16 35	...	...	
	eL	14 43 00	...	...	
	M	14 52 34	...	1·5	
	F	16 17 00	...	...	
,, 17th	P	23 33 09?	...	...	Very feeble shock.
	F	23 42 00	...	...	
,, 21st	P	12 27 54	...	...	Do.
	F	12 42 00	...	...	
,, 21st	P	12 46 15	...	...	
	S	12 48 21	...	...	
	L	12 50 14	...	...	
	M	12 52 36	...	0·75	
	F	?	...	...	Overlapping.
,, 21st	P	?	...	...	
	S	13 24 43	...	...	
	L	13 28 30	...	...	
	M	13 29 04	...	3·0	
	F	14 30 00	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	MAX. AMPLITUDE OF RECORD (MM.). A_E	REMARKS.
1932.		H. M. S.			
Feb. 23rd	eP	00 30 15?	...	...	
	S	00 37 49	...	...	
	L	00 52 08	...	...	
	M	00 55 08	...	3·0	
	F	03 09 00	...	...	
,, 26th	eP	06 37 13	...	...	
	S	06 41 28	...	...	
	L	06 43 21	...	...	
	M	06 44 50	...	3·8	
	F	07 09 00	...	...	
Mar. 4th	iP	23 20 07	...	...	
	iS	23 24 29	...	...	
	L	23 27 13	...	...	
	M	23 27 45	...	6·0	
	F	?	...	...	F cannot be determined as lines overlap.
,, 6th	P	00 21 14	...	...	
	S	00 25 15	...	...	
	L	00 27 41	...	...	
	M	00 29 26	...	0·6	
	F	?	...	...	F not traceable as lines overlap.
,, 6th	P	21 49 20	...	...	
	S	21 53 54	...	...	
	L	22 02 27	...	...	
	F	22 15 00	...	...	Very feeble shock.
,, 8th	P	05 23 00	...	...	
	F	06 08 00	...	...	Tremors.
,, 8th	eP	18 26 00	...	...	
	L	18 58 15	...	...	
	F	19 36 00	...	...	Feeble shock.
,, 10th	eP	5 56 00	...	...	
	L	06 18 15	...	...	
	F	09 36 00	...	...	Feeble shock.
,, 14-15th	eP	23 02 28	...	...	
	L	23 57 38	...	...	
	F	01 00 00	...	...	Feeble shock.

Date.	Phase.	Time. G. M. T.	Period (Sec.).	MAX. AMPLITUDE OF RECORD (MM.). A_E	REMARKS.
1932.		H. M. S.			
Mar. 15th	P Before.	04 52 02?	...	...	
	F	05 44 02	...	...	Tremors.
,, 15th	P	06 48 49	...	...	
	L	06 51 58	...	...	
	F	07 03 02	...	...	Feeble shock.
,, 18th	eP	05 22 29	...	...	
	S	05 27 09	...	...	
	L	05 29 11	...	...	
	M	05 32 55	...	5·1	
	F	07 03 03	...	...	
,, 19th	iP	11 10 47	...	...	
	iS	11 19 39	...	...	
	L	11 34 12	...	...	
	M	11 36 47	...	0·7	
	F	12 55 00	...	...	
,, 24th	eP	16 13 08	...	...	
	S	16 16 41	...	...	
	L	16 18 53	...	...	
	M	16 19 27	...	1·3	
	F	16 42 00	...	...	
,, 25th	P	04 34 30	...	...	
	L	04 38 26	...	...	
	F	04 51 00	...	...	Feeble shock.
,, 26th	P	?	...	...	
	S	?	...	...	
	L	00 47 39	...	...	
	M	00 51 43	...	15·0	P and S lost in traces overlapping.
	F	03 11 00	...	...	
,, 26th	P	05 34 11	...	...	
	L	05 59 15	...	...	
	F	06 34 00	...	...	Feeble shock.
,, 26th	P	07 04 11	...	...	
	S	07 12 11	...	...	
	L	07 15 32	...	...	
	M	07 16 26	...	3·75	
	F	08 19 00	...	...	

TABLE E 4—*contd*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Max. amplitude of record (mm.). A_E	Remarks.
1932.		H. M. S.			
Mar. 26th	iP	10 01 36	...	...	
	S	10 09 06	...	...	
	L	10 18 15	...	...	
	M	10 22 39	...	4·5	
	F	12 16 00	...	...	
,, 27th	iP	08 49 04	...	...	
	iS	08 52 49	...	...	
	L	08 55 45	...	...	
	F	09 38 00	...	...	Feeble shock.
,, 27th	eP	17 08 38	...	...	
	L	17 14 10	...	...	
	F	17 58 00	...	...	Feeble shock.
,, 28th	eP	00 41 31	...	...	
	S	00 46 15	...	...	
	L	00 49 12	...	...	
	M	00 49 39	...	2·75	
	F	03 07 00	...	...	
April 1st	No	time marks.			
,, 3rd	P	20 57 51	...	...	
	S	21 07 15	...	...	
	L	21 33 22	...	...	
	F	22 17 00	...	...	Feeble shock.
,, 4th	P	19 24 58	...	...	
	F	20 26 58	...	...	Feeble shock.
,, 8th	P	12 47 15	...	...	
	F	12 30 00	...	...	Feeble shock.
,, 22nd	iP	05 04 11	...	...	
	iS	05 09 08	...	...	
	L	05 14 49	...	...	
	M	05 17 00	...	1·75	
	F	06 45 00	...	...	
,, 29th	P	17 38 21	...	...	
	F	18 09 00	...	...	Tremors.
,, 29th	P	18 30 23	...	...	
	F	19 50 00	...	...	Feeble shock.
,, 30th	P	01 18 24	...	...	
	S	01 29 00	...	...	
	L	01 49 15	...	...	
	F	02 26 00	...	...	Feeble shock.
,, 30th	P	06 30 08	...	...	
	F	06 54 00	...	...	Tremors.
,, 30th	P	09 21 08	...	...	
	F	09 26 00	...	...	Tremors.
,, 30th	P	11 03 23	...	...	
	F	11 29 00	...	...	Very feeble shock.
1932.		H. M. S.			
May 2nd 3rd	P	23 42 00	...	...	
	F	00 22 00	...	...	Tremors.
,, 4th	P	08 38 43	...	...	
	F	08 48 58	...	...	Tremors.
,, 5th	P	03 32 00?	...	...	
	F	03 55 00	...	...	Tremors.
,, 6th	P	09 07 15	...	...	
	L	09 13 00	...	...	
	F	10 06 00	...	...	Slight shock.
,, 12th	P	06 17 39	...	...	
	F	06 49 00	...	...	Tremors.
,, 14th	P	05 45 13	...	...	
	F	05 54 58	...	...	Tremors.
,, 14th	P	13 19 38	...	...	
	S	13 26 40	...	...	
	M	13 27 27 13 41 32	} ...	80·0	
	F	18 38 57	...	...	
,, 18th	P	19 04 05	...	...	
	F	20 42 54	...	...	Feeble shock.
,, 20th	P	18 33 25	...	...	
	F	19 51 02	...	...	Tremors.
,, 21st	P	10 30 09	...	...	
	S	10 10 43	...	...	
	L	11 21 43	...	...	
	M	11 38 11 11 50 24	} ...	3·0	
	F	12 32 58	...	...	
,, 22nd	P	11 54 37	...	...	
	F	13 30 00	...	...	Tremors.
,, 26th	P	16 23 00	...	...	
	S	16 25 00	...	...	
	L	16 27 17	...	...	
	M	16 33 00	...	12·0	
	F	?	...	...	
,, 28th	P	02 30 45	...	...	
	S	02 38 17	...	...	
	L	02 50 11	...	...	
	M	02 54 52	...	1·0	
	F	03 36 00	...	...	
June 3rd	P	10 56 45	...	...	
	S	11 11 38	...	...	
	L	11 47 38	...	...	
	M	12 10 15	...	65·0	
	F	16 04 00	...	...	
1932.		H. M. S.			
June 6th	P	09 36 08	...	...	
	F	10 50 53	...	...	Tremors.
,, 8th	P	07 06 53	...	...	
	F	07 24 00	...	...	Tremors.
,, 10th	P	20 30 00	...	...	
	S	20 32 23	...	...	
	L	20 36 56	...	...	
	M	20 37 08	...	1·25	
	F	21 12 00	...	...	
,, 11th	P	08 39 08	...	...	
	S	08 43 23	...	...	
	L	08 45 23	...	...	
	M	08 46 38	...	1·5	
	F	09 23 00	...	...	
,, 16th	P	01 23 30	...	...	
	S	01 24 13	...	...	
	L	01 27 28	...	...	
	M	01 27 36	...	5·0	
	F	02 49 00	...	...	
,, 18th	P	10 33 23	...	...	
	S	10 55 40	...	...	
	L	11 35 00	...	...	
	M	11 46 56	...	15·5	
	F	13 54 00	...	...	
,, 18th	P	17 40 23	...	...	
	F	18 08 00	...	...	Tremors.
,, 18th	P	21 42 38	...	...	
		21 55 00	...	...	Tremors.
,, 21st	P	23 21 17	...	...	
	F	23 31 02	...	...	Tremors.
,, 22nd	P	01 15 15	...	...	
	F	01 19 00	...	...	Tremors.
,, 22nd	P	13 20 00	...	...	
	S	13 34 30	...	...	
	L	14 18 00	...	...	
	M	14 23 26	...	4·0	
	F	15 31 00	...	...	
,, 26th	P	20 04 34	...	...	
	F	20 30 00	..	...	Tremors.
July 2nd	P	21 21 21	...	...	
	F	21 27 00	...	...	Tremors.
,, 5th	P	11 07 17	...	...	
	F	11 26 58	...	...	Feeble shock.
,, 7th	P	17 21 26	...	...	
	F	18 29 00	...	...	Tremors.

TABLE E 4—*contd.*

Date.	Phase.	Time. G. M. T.	Period (Sec.).	MAX. AMPLITUDE OF RECORD (MM.). $\frac{A}{E}$	REMARKS.
1932.		H. M. S.			
July 12th	P	20 23 17?	...	...	
	S	20 26 28?	...	...	
	L	20 32 40	...	...	
	F	21 40 02	...	...	Feeble shock.
„ 16th	iP	21 07 19	...	...	
	S	21 10 05	...	...	
	L	21 12 25	...	...	
	M	21 13 55	...	2·75	
	F	21 53 57	...	...	
„ 25th	P	09 43 15	...	...	
	S	09 57 10	...	...	
	L	10 30 13	...	...	
	F	11 39 00	...	...	Feeble shock.
„ 27th	P	21 29 00	...	...	
	F	22 08 00	...	...	Tremors.
Aug. 1st	P	06 12 41	...	...	
	F	06 20 00	...	...	Very feeble shock.
„ 12th	P	03 41 07	...	...	
	F	06 32 00	...	...	Tremors.
„ 14th	iP	04 44 37	...	...	
	S	04 48 34	...	...	
	L	?	...	...	
	M	04 49 58	...	30·0	
	F	06 52 00	...	...	
„ 14th	P	12 41 00	...	...	
	S	12 45 00	...	...	
	L	12 47 26	...	...	
	F	13 32 00	...	...	Feeble shock.
„ 17th	P	18 37 21	...	...	
	F	18 51 00	...	...	Feeble shock.
„ 21st	P	04 23 49	...	...	
	S	01 29 28	...	...	
	L	04 41 48	...	...	
	F	05 38 00	...	...	Feeble shock.
„ 21st	P	13 03 11	...	...	
	F	13 12 00	...	...	Tremors.
„ 22nd	P	11 28 15	...	...	
	F	12 10 00	...	...	Feeble shock.
„ 24th	P	12 18 28	...	...	
	F	13 04 58	...	...	Feeble shock.
Sept. 3rd	P	12 18 13	...	...	
	F	12 55 00	...	...	Feeble shock.
„ 8th	P	07 36 00	...	...	
	F	08 09 00	...	...	Feeble shock.
1932.		H. M. S.			
Sept. 9th	P	13 48 18	...	...	
	S	13 55 48	...	...	
	L	14 02 03	...	...	
	F	14 57 03	...	...	Feeble shock.
„ 14th	P	09 30 15	...	...	
	F	09 57 00	...	...	Feeble shock.
„ 15th	P	11 21 11	...	...	
	F	12 16 00	...	...	Feeble shock.
„ 15th	P	14 16 07	...	...	
	S	14 27 23	...	...	
	L	14 38 49	...	...	
	M	14 56 13	...	2·0	
	F	16 35 00	...	...	
„ 20th	P	15 47 11	...	...	
	F	16 23 00	...	...	Feeble shock.
„ 23rd	P	14 32 06	...	...	
	S	14 40 02	...	...	
	L	14 48 51	...	...	
	F	16 00 58	...	...	Feeble shock.
„ 26th	P	19 30 21	...	...	
	S	19 38 15	...	...	
	L	19 49 11	...	...	
	M	19 59 45	...	2·75	
	F	21 33 00	...	...	
„ 29th	P	?	...	...	
	F	05 17 00	...	...	Feeble shock. P lost in changing sheet.
„ 29th	P	06 52 17	...	...	
	F	06 56 00	...	...	Tremors.
„ 29th	P	17 58 08	...	...	
	S	18 07 33	...	...	
	F	19 14 00	...	...	Feeble shock.
Oct. 2nd	P	03 33 00	...	...	
	S	03 36 54	...	...	
	L	03 38 53	...	...	
	M	03 42 19	...	3·5	There were several tremors in the sheet from 9h. 50m. 1s. onwards.
„ 2nd	F	...	...	...	
	P	?	...	...	Overlapping.
	S	?	...	...	
	L	04 19 41	...	...	
	F	05 04 00	...	...	Feeble shock.
„ 16th	P	12 17 ±	...	...	
	S	?	...	...	
	L	?	...	...	
	M	?	...	3·5	
	F	15 20 ±	...	...	No time marks on the sheet.
Oct. 17th	P	13 30 ±	...	...	
	S	...	...	...	
	L	...	...	...	
	F	15 30 ±	...	...	No time marks. Feeble shock.
„ 20th	P	18 31 11	...	...	
	F	18 54 00	...	...	Tremors.
„ 22nd	P	23 40 21	...	...	
	F	23 53 02	...	...	Tremors.
„ 23rd	P	20 36 00	...	...	
	F	21 28 00	...	...	Tremors.
„ 28th	P	11 19 50	...	...	
	F	11 52 58	...	...	Tremors.
„ 29th	P	10 20 ±	...	...	
	F	10 30 ±	...	...	Tremors. No time marks.
„ 29th	P	11 20 ±	...	...	
	S	11 25 ±	...	...	
	L	11 27 ±	...	...	
	M	11 31 ±	...	5·5	
	F	12 25 ±	...	...	No time marks.
„ 30th	P	21 00 38	...	...	
	S	21 11 12	...	...	
	L	21 36 45	...	...	
	F	22 22 00	...	...	Feeble shock.
Nov. 2nd	P	11 23 3	...	...	
	F	13 01 00	...	...	Tremors.
„ 9th	iP	18 35 00	...	...	
	iS	18 38 45	...	...	
	L	18 40 52	...	...	
	M	18 41 30	...	2·4	
	F	19 33 00	...	...	
„ 13th	iP	04 56 41	...	...	
	iS	04 58 1	...	...	
	iL	05 04 30	...	...	
	M	05 04 36	...	5·25	
	F	06 07 00	...	...	
„ 13th	P	1 00 43	...	...	
	F	17 11 00	...	...	Tremors.
„ 14th	P	00 51 43	...	...	
	F	01 02 00	...	...	Tremors.
„ 26th	P	04 34 37	...	...	
	S	04 43 11	...	...	
	F	?	...	...	Feeble shock. Lines got jumbled.
„ 26th	P	17 52 27	...	...	
	F	19 05 58	...	...	Tremors.

TABLE E 4—*concld.*

Date.	Phase.	Time. G. M. T.	Period (Sec.).	MAX. AMPLITUDE OF RECORD (MM.). A_E	REMARKS.
1932.		H. M. S.			
Nov. 29th	P	02 00 45	...	...	
	F	03 08 00	...	...	Tremors.
„ 29th	P	11 30 35	...	...	
	S	11 41 45	...	...	
	L	12 18 52	...	...	
	M	12 29 32	...	1·0	
	F	13 37 00	...	...	
„ 30th	P	17 06 08	...	...	
	S	17 08 00	...	...	
	L	17 09 12	...	...	
	F	17 18 00	...	...	Feeble shock.
Dec. 4th	P	04 24 25	...	...	
	F	05 41 00	...	...	Tremors.
„ 4th	iP	08 19 25	...	...	
	iS	08 25 26	...	...	
	iL	08 33 17	...	...	
	M	08 38 41	...	19·0	
	F	11 55 00	...	...	
„ 7th	P	16 42 00	...	...	
	S	17 04 26	...	...	
	L	17 36 11	...	...	
	M	17 52 35	...	1·5	
	F	18 57 00	...	...	
„ 8th	Not possible to measure the times as lines overlap.				Tremors.
„ 10th	P	03 56 12	...	...	
	F	04 56 02	...	...	Tremors.
1932.		H. M. S.			
Dec. 11th	iP	04 29 46	...	...	
	iS	04 33 00?	...	...	
	L	04 34 15	...	...	
	M	04 36 41	...	1·5	
	F	06 39 00	...	...	
„ 11th	P	07 40 00	...	...	
	F	07 59 00	...	...	Tremors.
„ 15th	P	19 40 ±	...	...	
	S	...	...	...	
	L	...	...	...	
	F	20 40 ±	...	...	Feeble shock. No time marks.
„ 17th	P	08 06 47	...	...	
	F	08 50 00	...	...	Feeble shock.
„ 21st	P	06 28 ±	...	...	
	S	06 43 ±	...	...	
	L	07 03 ±	...	...	
	M	07 21 ±	...	8·0	Time marks failed for some hours.
	F	09 35 00	...	...	
„ 24th	P	05 32 17	...	...	
	F	05 52 02	...	...	Feeble shock.
„ 24th	iP	06 47 47	...	...	
	iS	06 56 55	...	...	
	L	07 13 33	...	...	
	F	08 53 02	...	...	Feeble. shock.
1932.		H. M. S.			
Dec. 25th	P	...	...	...	
	F	07 53 00	...	...	Feeble shock. Beginning in the previous day's sheet not recorded as the light had burnt off.
„ 25th	P	08 55 00	...	...	
	F	10 03 00	...	...	Tremors.
„ 25th	P	...	...	...	Tremors. Lines overlapping; time cannot be determined.
	F	...	...	...	
„ 26th	P	21 23 00	...	...	
	S	?	...	...	
	L	21 29 47	...	...	
	F	22 05 00	...	...	Feeble shock.
„ 28th	P	08 37 28	...	...	
	F	09 10 02	...	...	Feeble shock.
„ 30th	No time marks.		...	...	Tremors.
„ 31st	No time marks.		...	1·25	Slight shock.
„ 31st	P	06 40 ±	...	...	
	S	06 49 ±	...	...	
	L	06 58 52	...	...	
	M	07 07 21	...	8·0	No time marks for P and S.
	F	08 39 00	...	...	

T. ROYDS,

Director, Madras and Kodaikanal Observatories.

* * The following table contains a list of earthquakes that were reported by voluntary observers from various stations :—

TABLE E 5.

Place at which felt.	Date.	G.M.T. of earthquake.	Duration.	Intensity (Rossi-Forel scale).	No. of shocks.	Remarks.	Place at which felt.	Date.	G.M.T. of earthquake.	Duration.	Intensity (Rossi-Forel scale).	No. of shocks.	Remarks.
	1932.	H. M.	Sec.					1932.	H. M.	Sec.			
Yatung, Tibet	Jan. 11	9 15	60	6	Several tremors.		Dhubri	Aug. 13	19 31	9	6	1	
Cooch Behar (Bengal)	,, 11	9 16	2-3	5	1		Cooch Behar	,, 14	4 57	about 10	6	1	
Do.	,, 18	14 01	about 2	4	1		Faridpur	,, 14	4 40	about 1	7	1	
Gauhati (Assam)	,, 19	13 35	30-45	6	Several shocks.		Cherrapunji	,, 14	4 40	30	4	2	
Cherrapunji	,, 19	13 35	5	5	2		Dhubri	,, 14	4 41	165	6	4	
Salonah	,, 19	13 42	4-5	4	1		Narayanganj	,, 14	4 40	3	4	3	
Cherrapunji	,, 21	13 45	2	5	2		Gauhati	,, 14	4 40 7 12	about 175 about 5	7	4	
Cooch Behar (Bengal)	,, 21	13 51	about 60	6	1		Chittagong	,, 14	4 42	about 5	4	2	
Gauhati	,, 21	13 48	5	6	1		Salonah	,, 14	4 30	90-120	8	3	
Dhubri	,, 21	13 45	12	6	2		Do.	,, 14	7 11	about 7	5	1	
Mymensingh	,, 21	13 47	½	5	1		Khulna	,, 14	4 51	1½	4	2	
Dhubri	,, 23	16 21	18	6	3		Mymensingh	,, 14	4 43	15	6	2	
Gauhati	,, 26	4 59	5	6	1		Yatung, Tibet	,, 14	4 40 4 41	about 5 about 8	5	Several tremors.	
Cooch Behar	,, 23	17 21	about 15	7	1								
Gauhati	,, 23	17 29	10	6	1								
Drosh	Feb. 9	2 25	20	6	2		Quetta	,, 25	22 45	5		1	
Dhubri	,, 14	15 51	15	6	2		Drosh	Sep. 9	18 30	10	3	...	
Drosh	,, 14	20 30	60	7	2		Gauhati	,, 10	4 21	2	3	1	
Cherrapunji	Mar. 6	0 18	5	4	2		Drosh	,, 10	19 30	8	3	...	
Cooch Behar	,, 6	0 43	about 15	4	1		Salonah	,, 10	4 15	8-10	4	1	
Gauhati	,, 6	0 21	about 65	6	2		Drosh	,, 11	12 30	40	6	3	
Salonah	,, 6	0 18	3-5	3	1		Do.	,, 11	13 00	20	4	2	
Rawalpindi	,, 9	1 10	about 10	3	1		Dhubri	,, 15	14 45	16	7	3	
Drosh	,, 9	1 10	50	6	1		Cooch Behar	,, 15	14 36	about 10	4	1	
Khulna	,, 24	15 50	2	3	2		Salonah	,, 24	23 30	about 5	4	1	
Gauhati	,, 24	16 10	about 50	6	3		Yatung, Tibet	Oct. 13	13 55	30	6	...	Several tremors.
Chittagong	,, 24	16 10	about 10	...	2		Muktesar (Kumaun)	,, 14	1 54	about 40	4	3	
Salonah	,, 24	16 08	12-15	5	3		Sonamarg	,, 29	18 55	25	3	2	
Faridpur	,, 24	16 10	5	5	1		Rawalpindi	Nov. 6	6 52	about 25	6	1	
Badarpurghat	,, 24	16 07	2-3	5	1		Cherrapunji	,, 9	18 30	30	3	2	
Mymensingh	,, 24	16 09	1	7	1		Gauhati	,, 9	18 28	60	8	1	
Rawalpindi	,, 29	9 12	10	5	2				18 30				
Yatung, Tibet	May 17	13 50	about 55	6	1	Severe shock and several tremors.			18 34				
									18 38				
									19 08	All about 5 seconds each.	8	9	
Dhubri	July 20	7 35	13	5	3				19 14				
Cooch Behar	,, 20	8 43	...	4	1				19 15				
Gauhati	Aug. 1	6 06	about 30	6	3				19 25				
Dhubri	,, 1	6 06	26	7	2		Gauhati	,, 10	2 15		3	2	
Cherrapunji	,, 1	6 05	5	4	2				6 17				
Mymensingh	,, 1	6 05	½	6	1								
Cooch Behar	,, 1	6 03	about 50	6	1		Gauhati	,, 10	13 19	about 10	6	1	
Do.	,, 2	6 53 11 05	20 15	6	2		Dhubri	,, 10	6 35	50	6	6	Continuous.
Cherrapunji	,, 12	9 18	5	4	1		Gauhati	,, 11	1 04 8 21	about 5 sec. each.	6	3	

TABLE E 5—*contd.*

Place at which felt.	Date.	G.M.T. of earthquake.	Duration.	Intensity (Rossi-Forel scale).	No. of shocks.	REMARKS.	Place at which felt.	Date.	G.M.T. of earthquake.	Duration.	Intensity (Rossi-Forel scale).	No. of shocks.	REMARKS.
	1932.	H. M.	Sec.					1932.	H. M.	Sec.			
Salonah . . .	Nov. 10	6 33	40-45							about			
		6 35	2-3				Gauhati . . .	Nov. 19	15 21	5	6	1	
				5	4		Do. . .	„ 19	21 02	8	6	1	
		6 45	2-3				Do. . . .	„ 20	15 15	5	6	1	
		7 08	2-3				Salonah . . .	„ 19	21 05	12-15	5	1	With vibrations.
		13 18	3-4	4	1					about			
Do. . . .	„ 11	1 01	2-3	3	1		Gauhati . . .	„ 20	19 30	5	6	1	
Gauhati . . .	„ 12	20 35	about 5	6	3		Do. . . .	„ 21	14 47	about 20	6	2	
Do. . . .	„ 14	17 40	about 5	6	1		Salonah . . .	„ 21	14 51	3 or 4	4	1	
Peshawar . .	„ 14	21 35	90	5	2					about			
Drosh . .	„ 14	17 05	40	5	2		Angul . . .	„ 24	20 20	2	5	1	
Do. . . .	„ 14	21 25	90	8	8		Drosh . . .	Dec. 13	14 50	20	4	2	
Salonah . . .	„ 14	15 44	2-3	4	1		Do. . . .	„ 14	1 00	15	6	3	
							Salonah . . .	„ 20	22 40	about 5-8	4	1	
Srinagar . . .	„ 14	21 32	about 3	8	1		Mukteswar . .	„ 21	4 49	about 10	5	1	
Gauhati . . .	„ 16	6 22	about 10	6	1		Dhubri . . .	„ 22	3 55	12	6	2	
Salonah . . .	„ 16	6 23	about 12	4	1	With vibrations.	Faridpur . . .	„ 26	8 5	about 5	6	2	

J. M. SIL,
Meteorologist,
Poona.

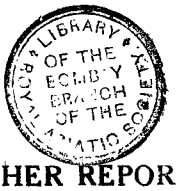
GIPD—M115 DG of Obs., Poona—6 3-34—290.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW

ANNUAL SUMMARY FOR 1932



PART F

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Offg. Director General of Observatories

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Offg. Director General of Observatories

ANNUAL SUMMARY FOR 1932.

PART F.

ERRATA SHEETS.

For the monthly Weather Reports, January to December, 1932.

JANUARY 1932.

Reference.	Figure Column.	For	Read
Victoria Point . .	2, 8, 12, 16, 19 and 21.	+030, —1·4, +0·1, —1, —·029 and —0·8.	+·062, —1·8, —0·6, —3, —·040 and —1·2.
Gwa	19 and 21.	....	*Insert* —0·01 and 0.
Kyaukpyu . . .	1, 2, 7, 8, 12, 16, 19 and 21.	30·028, +·058, 80·0, +1·1, +1·2, 0, —0·05 and —0·3.	30·025, +055, 80·1, +1·0, +0·9, +1, —0·04 and —0·2.
Minbu . . .	1 and 2.	29·908 and +·071.	29·899 and +·062.
Yamethin . . .	2, 6 and 12.	+·066, 56·0 and —1·8.	+·067, 56·6 and —0·8.
Lashio . . .	2.	+·062.	+·057.
Bhamo . . .	12.	+0·7.	—0·7.
Silchar . . .	18 and 19.	0·06 and —0·75.	0·11 and —0·70.
Srimangal . . .	2.	+·031.	+·047.
Cox's Bazar . . .	2, 11, 12, 16, 19 and 21.	+·051, 56·0, —0·5, —9, —0·06 and —0·2.	+·059, 55·8, —1·0, —7, —0·15 and —0·3.
Khulna . . .	2, 8, 12, 16, 19 and 21.	....	*Insert* +·045, +3·4, +3·1, +10, —0·40 and —0·7.
Jessore . . .	1, 2, 4, 5, 7, 11, 15, 16 and 17.	30·061, +·061, 1·4, 62·3, 79·4, 51·9, —1·3, 88, +4 and 1·1.	30·063, +·063, 1·3, 62·2, 81·3, 52·0, 90, +6 and 0·9, and *omit* the figures in columns 8 and 12.
Sandheads . . .	1, 2, 3, 6, 15, 16, 19 and 21.	30·041, +021, N15W, 69·6, 75, +2, —0·20 and —0·7.	30·052, +055, N27W, 69·4, 72, 0, —0·19 and —0·6; *omit* (1) against the station.
Midnapore . . .	1, 2, 4, 5, 6, 15 and 16.	29·934, +·057, 1·2, 61·4, 57·6, 80 and +9.	29·932, +·055, 0·9, 61·2, 57·5, 79 and +8.
Burdwan . . .	4.	·8.	1·8.
Asansol . . .	8, 12, 16, 17, 19 and 21	+2·8, +0·2, —5, 0·2, —0·50 and —1·2.	+3·6, +0·9, —0·3, ·0·3, —0·31 and —0·9, and *insert* +·046 in column 2.
Berhampore . .	5, 15 and 16.	60·6, 85 and —1.	60·8, 82 and —4.
Balasore . . .	4 and 6.	6·0 and 60·3.	2·5 and 60·2.
Puri	6.	64·2.	64·1.
Angul	10.	23.	27.
Chaibasa . . .	8, 12 and 16.	+2·6, +0·6 and —3.	+2·7, 0 and —4.
Ranchi . . .	10.	22, 23.	22, 26.
Motihari . . .	1, 4, 5, 7, 11 and 14.	29·864, 1·7, 54·2, 76·4, 48·8 and 1, 18.	29·866, 1·5, 54·1, 76·5, 48·9 and 1 and *insert* +·064, +3·7, +2·1 and 2 in columns 2, 8, 12 and 16.
Patna	10.	27.	22.
Gaya	17.	0·3.	0·4.
Maymyo . . .	1 and 2.	26·540 and +·071.	26·534 and +·065.

JANUARY 1932—*contd.*

Reference.	Figure Column.	For	Read
Kalimpong . . .	....	*Insert* +·053, +1·6, +1·5, —2, —0·35 and —1·3 in columns 2, 8, 12, 16, 19 and 21.	
Satkhira . . .	....	*Insert* +·029, +2·4, +2·8, +7, —0·33 and —0·6 in columns 2, 8,12, 16, 19 and 21.	
Gorakpur . . .	11 and 12.	48·9 and +0·2.	49·1 and +04.
Ludhiana . . .	18, 19, 20, 21 and 22.	0, —1·72, 0, —2·9 and 0.	0·70, —1·02, 1, —1·9 and 070, and *insert* 10 in column 23.
Lahore . . .	8, 12 and 16.	+2·4, +1·8 and +7.	+2·0, +3·1 and +9.
Sialkot . . .	1, 2, 6, 11, 12 and 17.	29·229, +043, 45·8, 43·2, +0·5 and 35.	29·226, +040, 45·9, 43·3, +0·6 and 3·4; *omit* 2 against the station.
Rawalpindi . . .	4.	3·0.	2·0.
Multan . . .	18 and 19.	0·28 and —0·14.	0·30 and —0·12.
Srinagar . . .	4.	2·1.	2·0.
Gilgit	18, 19, 20, 21, 22 and 23.	0·05, —0·20, 0, —0·8, 00·3 and 9.	0·17, —0·08, 1, +0·2, 012 and 10.
Chaman . . .	18, 19, 20 and 21.	1·17, —0·40, 4 and 0·1.	1·31, —0·26, 5 and +0·9.
Las Bela . . .	3.	N 15 W.	N 18 W.
Dalbandin . . .	18 and 19.	1·04 and +0·16.	1·07 and +0·19.
Hyderabad (Sind) .	3.	N 15 W.	N 11 W.
Chhor	1 and 3.	30·076 and N 37 E.	30·067 and N 28 E.
Ajmer	6.	49·3.	49·4.
Dwarka . . .	1, 2, 7 and 8.	30·039, +·036, 80·6(3) and +23.	30·040, +037, 80·3 and +2·0.
Jhalrapatan . .	3.	N 67 E.	N 24 W.
Neemuch . . .	4.	3·4.	2·9.
Dohad . . .	1.	30·048.	29·048.
Guna	17.	1·2.	0·9.
Umaria . . .	1.	29·545.	28·545.
Seoni	17.	0·7.	0·8.
Raipur . . .	1 and 2.	29·085 and +·060.	29·083 and +058.
Jagdalpur . . .	1 and 2.	28·216 and +036.	28·217 and +·037.
Malegaon . . .	1 and 2.	28·620 and +·069.	28·619 and +068.
Belgaum . . .	11 and 12.	58·0 and +0·2.	57·9 and +0·1.
Raichur . . .	4.	5·6.(1)	5·6.
Hyderabad (Deccan) .	7 and 8.	82·9 and —1·3.	83·4 and —0·8.
Page 7 . . .		*Omit* "1-mean of 30 days" in the footnote.	
Pamban . . .	11 and 12.	74·6 and +0·3.	74·7 and +0·4.

JANUARY 1932—*concld.*

Reference.	Figure Column.	For	Read
Madura . . .	17.	4·1.	4·2.
Salem	3.	N 41 E.	N 43 E.
Calingapatam . .	4 and 6.	5·1 and 63·6.	5·0 and 63·7.
Gopalpur . . .	1, 2 and 17.	30·035, +070 and 1·2.	30·031, +0·66 and 1·0.
Mukteswar . . .	4, 6, 15 and 16.	7·7, 30·6 (1), 38 and —15.	7·5, 34·5, 36 and —1·76.
Page 8 . . .		*Omit* " 1-mean of 30 days " in the footnote.	
Simla	3.	S 50 E.	S 54 E.
Murree . . .	6.	33·7 (1).	33·5.
Cherat . . .	1 and 2.	25·830 and +072.	25·828 and +070.
Drosh	6.	33·7 (3).	33·5.
Coonoor . . .	1.	23·534.	24·534.
Page 8 . . .		*Omit* " 3-mean of 28 days " in the footnote.	

FEBRUARY 1932.

Reference.	Figure Column.	For	Read
Victoria Point . .	2, 8, 12, 13, 14, 16, 19, 21, 22 and 23.	+·002, —0·3, +1·1, 73, 4, 20, +5, +0·82, +1·7, 0·10 and 20.	+·023, —0·6, +0·7, 72, 28, +3, +0·20, +0·7, 0·85 and 28 ; and *insert* 23 in column 10.
Mergui . . .	10.	4 days.	5 days.
Diamond Island . .		*Omit* 17 in column 10.	
Gwa	....	*Insert* 17, —0·02 and +0·8 in columns 10, 19 and 21.	
Kyaukpyu . . .	8, 12, 13, 14, 16, 19 and 21.	—0·4, +2·4, 62, "2, 11," —9, +1·95 and +2·7.	—0·5, +2·0, 61, 23, —10, +1·91 and + 2·6.
Akyab . . .	4.	6·7 (3).	7·0 (3).
Yamethin . . .	2.	—·002.	—·001.
Mandalay . . .	3, 15 and 16.	N 22 E, 73 and +5.	N 11 E, 74 and +6.
Lashio . . .	1 and 2.	27·104 and +·044.	27·110 and —·010.
Sibsagar . . .	17.	5·8.	6·5.
Dhubri . . .		*Omit* 10 in column 14.	
Silchar . . .	18, 19, 20 and 21.	3·07, +0·95, 5 and +1·4.	3·43, +1·31, 7 and +3·4.
Srimangal . . .	2.	—·004.	—·002.
Cox's Bazar . . .	2, 11, 12, 16, 19 and 21.	—·004, 58·4, —0·9, —15, +0·18 and +0·3.	+·003, 58·2, —1·2, —13, +0·06 and +0·2.
Chittagong . . .	5, 6 and 17.	63·2, 58·7 and 1·3.	63·1, 58·6 and 1·5.
Mymensingh . .	18 and 19.	0·74 and —0·20.	0·75 and —0·19.
Khulna . . .	1 and 11.	29·945 and 59·0.	29·939 and 58·8, and *insert* —·018, +0·4, +0·6, +4, —0·64 and —0·4 in columns 2, 8, 12, 16, 19 and 21.
Jessore . . .	3, 7, 15, 16 and 17.	S 11 W, 79·8 (4), 81, 0 and 2·7.	S 22 W, 81·7 (4), 82, +1 and 2·8 and *omit* figures in columns 8 and 12.
Satkhira . . .	*Insert* —·031, +0·2, —0·2, +3, —·053 and +1·0 in columns 2, 8, 12, 16, 19 and 21.		
Sandheads . . .	2, 16, 19 and 21.	—·037, —10, —043 and —0·1.	—·023, —9, —·031 and 0.
Midnapore . . .	4, 6, 15, 16, 17, 18 and 19.	2·0, 59·1, 68, 0, 2·6, 1·07 and —0·13.	1·9, 59·0, 69, +1, 2·6, 1·09 and —0·11.
Burdwan . . .	4 and 17.	2·4 and 2·2.	2·3 and 2·3.
Asansol . . .	1, 4, 6, 8, 12, 15, 16, 17, 19 and 21.	29·520, 3·1, 54·7, —0,5, —1·0, 59, —8, 1·9, —0·40 and +1·5.	29·523, 3·3, 54·8, —0·3, —0·8, 60, —7, 2·0, —0·50 and +1·2, and *insert* —·024 in column 2.
Berhampore . .	4 and 5.	1·8 and 62·2.	1·4 and 62·4.
Rampur Boalia . .	21.	+3·5.	+2·5.
Rangpur . . .	18 and 19.	0·64 and —0·05.	0·65 and —0·04.
Cooch Behar . .	19.	+0·30.	—0·38.
Puri	1, 2, 4 and 5.	29·916, —025, 9·7 and 72·2.	29·915, —·026, 9·5 and 72·3.

FEBRUARY 1932—*contd.*

Reference.	Figure Column.	For	Read
Chaibasa . . .	8 and 16.	—2·1 and —6.	—2·2 and —7.
Motihari . . .	....	*Insert* —·020, +1·7, 0 and —16 in columns 2, 8, 12 and 16.	
Kalimpong . . .	18, 20, 22 and 23.	0·06, 0, 0·04 and 7.	0·22, 1, 0·14 and 21, and *insert* —·017, —1·4, —1·9, —6, —1·28 and —2·0 in columns 2, 8, 12, 16, 19 and 21.
Bahraich . . .	1, 2, 7, 8, 9 and 10.	29·505, —·035, 78·2, +1·8, 89 and 14.	29·504, —·036, 77·9, +1·5, 86 and 29.
Bareilly . . .	1.	29·365.	29·363.
Delhi	2.	—·021.	—·017.
Ambala . . .	18 and 19.	1·73 and +0·08.	1·77 and +0·12.
Lahore . . .	8, 12 and 16.	+1·4, —0·5 and —3.	+1·1, +0·7 and +2.
Rawalpindi . . .	4.	4·2.	2·7.
Lyallpur . . .	1 and 2.	29·368 and +·006.	29·355 and —·007.
Bahawalpur . .	1.	29·575.	29·573.
Khanpur . . .	17.	2·1.	1·8.
Dras	18 and 19.	1·88 and —0·79.	1·87 and —0·80.
Gilgit	4.	3·4.	3·1.
Miranshah . . .	18.	0·03.	0·07.
Dera Ismail Khan .	17.	3·0.	3·1.
Quetta . . .	1, 2, 3, 4, 5, 7, 8, 11, 12, 15 and 16.	24·676, —·029, S 61 E, 4·4, 32·4, 58·4, +5·9, 27·4, —5·4, 44 and —22.	24·675, —·030, S 59 E, 4·3, 31·9, 58·1, +5·6, 27·1, —5.7, 62 (10) and —4, *omit* (3) against the station.
Chaman . . .	4.	5·6.	5·4.
Kalat	4.	7·8.	7·0.
Jacobabad . . .	1.	29·762.	29·754.
Hyderabad . . .	3.	S 87 W.	S 81 W.
Jaipur . . .	6.	49·4.	49·3.
Jhalrapatan . .	1 and 11.	29·891 and 49·3.	28·891 and 49·2.
Dohad . . .	1.	29·952.	28·952.
Jagdalpur . . .	17.	1·4.	1·5.
Bhopal . . .	11 and 13.	53·5 and 43.	54·5 and 44.
Umaria . . .	1.	29·424.	28·424.
Malegaon . . .	1 and 2.	28·512 and —·002.	28·511 and —·003.
Ahmadnagar . .	1, 2 and 4.	27·780, —·014 and 3·8.	27·779, —·015 and 3·7.
Bijapur . . .	1, 2 and 5.	27·977, —·004 and 69·4.	27·978, —·003 and 69·3.

FEBRUARY 1932—*concld.*

Reference.	Figure Column.	For	Read
Hyderabad (Dn.) . .	7 and 8.	87·5 and —2·2.	88·0 and —1·7.
Hanamkonda . .	6, 15 and 16.	63·5, 68 and +6.	63·1, 66 and +4.
Vellore . . .	7 and 8.	86·1 and —3·2.	86·2 and —3·1.
Cuddapah . . .	18 and 19.	0·03 and —0·11.	0·08 and —0·06.
Cocanada . . .	4.	3·4.	4·6.
Calingapatam . .	11 and 12.	67·9 and +0·2.	68·0 and +0·3.
Mussooree . . .	17.	3·6.	3·3.
Cherat . . .	1 and 2.	25·727 and +005.	25·729 and +·007.
Drosh	3.	S 67 E.	S 64 E.
Coonoor . . .	1.	23·481.	24·481.

MARCH 1932.

Reference.	Figure Column.	For	Read
Victoria Point . .	2, 8, 12, 16, 19 and 21.	+·008, —0·9, +0·2, —3, —0·89 and —0·4.	+·023, —0·2, +0·1, —4, —2·05 and —2·2.
Port Blair . . .	13.	74.	73.
Mergui . . .	....	*Insert* 14 in figure column 14.	
Diamond Island . .	12.	—1·5.	+1·5.
Kyaukpyu . . .	8, 12, 19 and 21.	—0·7, +1·6, —0·39 and —0·5.	—0·6, +1·7, —0·28 and —0·4.
Minbu . . .	2.	+·074.	+·015.
Yamethin . . .	2.	+·077.	+·019.
Mandalay . . .	18 and 19.	0·05 and —0·14.	0·09 and —0·10.
Monywa . . .	2.	+0·73.	+·018.
Lashio . . .	2.	+0·75.	—·021.
Bhamo . . .	2.	+·018.	+·027.
Myitkyina . . .	2.	+0·76.	+·027.
Sibsagar . . .	18 and 19.	2·41 and —2·37.	2·44 and —2·34.
Dhubri . . .	7 and 8.	88·3 and +2·4.	88·4 and +2·5.
Silchar . . .	18, 19, 20 and 21.	4·51, —3·40, 5 and —4·4.	4·82, —3·09, 6 and —3·4.
Srimangal . . .	2.	—·001.	+·004.
Cox's Bazar . . .	2, 8, 12, 16, 19 and 21.	+·024, +0·3, +0·3, —6, —0·47 and —0·7.	+·022, +0·4, +0·5, —5, —0·23 and —0·3.
Noakhali . . .	3, 7, 8, 9 and 10.	N 63 E, 88·5, +2·1, 97 and 12.	E, 88·2, +1·8, 94 and 28.
Mymensingh . .	6.	67·7.	67·6.
Khulna . . .	2, 8, 12, 16, 19 and 21.	*Insert* +·009, +2·8, +1·8, —1, —0·12 and +0·5.	
Jessore . . .	1, 2, 5 and 17.	29·860, +·015, 76·0 and 3·0.	29·863, +·018, 76·1 and 2·8; *omit* the figures in columns 8 and 12.
Satkhira . . .	2, 8, 12, 16, 19 and 21.	*Insert* —·001, +3·2, +1·3, +1, —0·05 and —0·2.	
Sangor Island . .	1, 2, 3, 4, 6, 9, 10, 15, 16 and 17.	29·874, +·014, S 62 W, 12·1, 73·7, 97, 27, 74, —9 and 3·6.	29·875, +·012, S 56 W, 12·0, 73·8, 98, 30, 75, —8 and 3·8; *omit* (*a*) against the station.
Sandheads . . .	2, 16, 19 and 21.	—·016, —2, —0·76 and —1·2.	—·007, —1, —0·66 and —1·0.
Midnapore . . .	4, 6 and 17.	2·7, 67·2 and 2·3.	2·4, 67·1 and 2·2.
Burdwan . . .	3.	S 82 W.	S 79 W.
Asansol . . .	1, 4, 5, 8, 12, 15, 16, 19 and 21.	29·462, 3·9, 76·5, +2·3, +1·9, 40, —15, —1·20 and —2·2.	29·464, 3·8, 75·8, +2·7, +2·2, 43, —11, —0·91 and —2·4.
Asansol . . .	....	*Insert* +·017 in column 2.	
Berhampore . .	3.	S 41 W.	S 29 W.

MARCH 1932—*contd.*

Reference.	Figure Column.	For	Read
Dinajpur . . .	....	*Insert* 15 in column 14.	
Page 21 . . .	Station.	Cuttack.	Cuttack (*a*).
Jamshedpur . .	1.	29·511.	29·458.
Chaibasa . . .	8, 12 and 16.	+0·6, +0·7 and 0.	—0·1, +0·3 and +1.
Daltonganj . . .	7.	91·0.	91·8.
Motihari . . .	2, 8, 12 and 16.	*Insert* +·018, +3·5, +1·6 and —15.	
Naya Dumka . .	7 and 8.	94·6 (*a*) and +3·4.	94·7 and +3·5.
Maymyo . . .	2.	+·084.	+·030.
Kalimpong . . .	18.	0·40.	0·52.
Kalimpong . . .	2, 8, 12, 16, 19 and 21.	*Insert* +·031, +2·3, +2·7, —1·0, —0·61 and —1·1.	
Cherrapunji . . .	15 and 16.	61 and —8.	62 and —7.
Gorakhpur . . .	11 and 12.	62·5 and +0·9.	62·3 and +0·7.
Bahraich . . .	1 and 2.	29·450 and +·011.	29·453 and +·014.
Mainpuri . .	4.	3·0.	2·6.
Delhi	2.	+·010.	+·032.
Ludhiana . . .	1, 2 and 4.	29·075, +028 and 1·5.	29·074, +·027 and 1·7.
Lahore . . .	8, 12 and 16.	+0·4, +1·3 and —5.	+0·8, +3·0 and +3.
Khushab . . .	4.	5·9.	5·8.
Montgomery . .	3.	N 41 E.	N 34 E.
Bahawalpur . .	1, 4 and 17.	29·527, 3·2 and 1·8.	29·529, 3·1 and 1·6.
Dras	18 and 19.	2·69 and—1·51.	2·68 and—1·52.
Peshawar . . .	1, 2, 5, 6, 7, 8, 11, 12 and 17.	28·767, +·010, 60·7, 56·1, 76·9, +2·4, 54·1, +2·0 and 6·4.	28·772, +·015, 60·5, 56·0, 76·8, +2·3, 54·0, +1·9 and 6·5.
Hyderabad (Sind) .	3.	N 64 W.	N 66 W.
Jhalrapatan . .	1.	29·865.	28·865.
Deesa	1, 2, 7, 8, 11 and 12.	29·448, +·017, 97·6, +1·8, 62·5, and —0·6.	29·451, +·020, 97·7, +1·9, 62·4 and —0·7.
Dwarka . . .	4.	10·3.	10·7.
Veraval . . .	3.	N 5 W.	N 4 W.
Ahmadabad . .	3.	N 1 E.	N 3 E.
Neemuch . . .	5, 7 and 8.	74·9, 94·3 (*b*) and +3·5.	75·1, 90·6 and —0·2.
Dohad . . .	1 and 3.	29·924 and S 78 E.	28·924 and S 81 E.
Indore . . .	18 and 19.	0·32 and +0·26.	0·36 and +0·30.

MARCH 1932—*concld.*

Reference.	Figure Column.	For	Read
Bhopal . . .	11 and 13.	61·7 and 51.	62·7 and 52.
Sutna	18 and 19.	0·46 and —0·02.	0·47 and —0·01.
Umaria . . .	1.	29·405.	28·405.
Saugor . . .	1, 2, 6, 7, 8, 11, 12, 18, 19, 20 and 21.	28·114, +·044, 57·7 (*b*), 89·4 (*b*), —1·5, 64·4 (*b*), —0·3, 0·56, +0·21, 2 and +1·2.	28·115, +·045, 57·5, 89·5, —1·4, 64·3, —0·4, 0·83, +0·48, 3 and +2·2.
Raipur . . .	1 and 2.	28·911 and +·013.	28·912 and +·014.
Ahmadnagar . .	18, 19 and 22.	0, —0·16 and 0.	0·06, —0·10 and 0·05, and *insert* 23 in column 23.
Sholapur . . .	5, 15 and 16.	80·2, 32 and —1.	79·8, 34 and +1.
Hyderabad (Dn.) . .	6, 7 and 8.	65·4, 94·5 and —2·2.	65·0, 95·0 and —1·7.
Bangalore . . .	3.	S 31 E.	S 33 E.
Trivandrum . .	1, 2, 6, 7, 8, 15, 16 and 17.	29·676, +·001, 74·7, 87·6, 0, 78, +1 and 3·4.	29·675, 0, 74·6, 87·7, +0·1, 76, —1 and 3·3.
Vellore . . .	7 and 8.	88·8 and —6·0.	87·3 and —7·5.
Cocanada . . .	4.	3·1.	4·2.
Mussooree . . .	17.	5·1.	4·5.
Murree . . .	7 and 8.	56·1 and —0·2.	55·5 and —0·8.
Parachinar . . .	18, 19, 22 and 23.	6·76, +2·22, 1·25 and 11.	7·76, +3·22, 1·71 and 30.
Drosh	4.	1·9 (*b*).	2·1.
Coonoor . . .	1.	23·486.	24·486.

APRIL 1932.

Reference.	Figure Column.	For	Read
Victoria Point . .	2, 8, 16, 19 and 21.	+·013, —1·9, —2, +0·26 and —1·6.	+·028, —1·2, —3, —0·68 and —2·7.
Toungoo . . .	18 and 19.	0·07 and —1·78.	0·08 and —1·77.
Kyaukpyu . . .	8, 12, 16, 19 and 21.	—0·8, +1·0, +1, —053 and +0·2.	—0·9, +0·4, —1, —1·07 and 0.
Bhamo . . .	18, 19, 20, 21 and 22.	2·36, +047, 3, —1·8 and 1·50.	1·49, —0·40, 4, —0·8 and 0·60.
Srimangal . . .	2.	+·014.	+·012.
Cox's Bazar . . .	2, 8, 12, 16, 17, 19 and 21.	+·009, +0·8, +0·6, —3, 4·7, —0·48 and —0·1.	+·012, +0·5, —0·1, —4, 4·6, —0·28 and +0·3.
Khulna . . .	3, 18 and 20.	S 21 W, 4·10 and 6.	S 25 W, 4·73 and 7.
Khulna . . .	2, 8, 12, 16, 19 and 21.	*Insert* +·001, +1·9, 0, —1, +1·46 and +1·6.	
Jessore . . .		*Omit* the figures in columns 8 and 12.	
Satkhira . . .	2, 8, 12, 16, 19 and 21.	*Insert* —·010, +2·6, 0, —6, —2·04 and —1·6.	
Sandheads . . .	2, 16, 19 and 21.	—·033, —2, +0·54 and +1·6.	—·020, —1, +0·68 and +1·7.
Asansol . . .	2, 8, 12, 16, 19 and 21.	*Insert* +·008, +0·4, +0·6, —17, —0·63 and —0·3.	
Sambalpur . . .	10.	8.	30.
Chaibasa . . .	8 and 12.	—0·5 and —0·5.	—0·8 and —1·0.
Ranchi . . .	1 and 2.	27·655 and +·024.	27·657 and +·026.
Motihari . . .	2, 8, 12 and 16.	*Insert* +·012, +0·6, —0·3 and —13.	
Patna	14.	*Insert* 30.	
Shillong . . .	....	*Insert* "(*b*)" against the sta tion and "(*b*)—mean of 29 days" in the footnote on page 32.	
Kalimpong . . .	2, 8, 12, 16, 19 and 21.	*Insert* +·023, +1·9, +1·3, —12, —0·09 and —2·5.	
Sabour . . .	Station.	Sabour (*f*).	Sabour (*b*).
Gorakpur . . .	1, 2, 3, 5, 6, 7, 8, 11, 12, 15 and 16.	28·492, +·011, N 59 E, 82·7, 66·8, 100·3, +0·9, 71·6, +0·1, 40 and —12.	29·494, +·013, N 45 E, 81·9, 66·6, 100·4, +1·0, 71·4, —0·1, 42 and —10; *insert* (*d*) instead of (*e*) against the station.
Page 29 . . .	In the footnotes *omit* "(*e*) mean of 26 days," and *insert* "(*d*) mean of 27 days."		
Bahraich . . .	1, 2, 11 and 12.	29·349, +·015, 69·6 and +0·4.	29·338, +·014, 69·7 and +0·5.
Agra	1, 2, 5, 7 and 8.	29·212, +·012, 82·1, 99·2 and —2·5.	29·213, +·013, 81·9, 99·3 and —2·4; *omit* (*b*) against the station.
Mainpuri . . .	3, 4, 5, 6 and 15.	N 41 W, 3·1, 83·9 (*b*), 66·1 (*b*) and +34 (*b*).	N 38 W, 2·9, 84·1, 66·2 and 34.
Page 29 . . .		*Omit* the footnote "(*b*) mean of 29 days."	
Delhi	2.	—·004.	+·018.

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Reference.	Figure Column.	For	Read
Ludhiana . . .	1 and 2.	28·950 and +·022.	28·949 and +·021.
Lahore . . .	8, 12 and 16.	+1·7, +0·9 and —9.	+2·4, +2·7 and —2.
Khushab . . .	4, 11 and 12.	5·1, 68·2 and +1·5.	5·5, 67·9 and +1·2.
Montgomery . .	1, 2, 4, 6, 7, 11, 12, 15 and 16.	29·187 (*b*), —·004 (*b*), 2·7, 66·0 (*b*), 98·0 (*b*), 68·1 (*b*), +1·3, 50 (*b*) and +12.	29·188, —·003, 2·7, 66·1, 98·0, 68·2, +1·4, 51 and +13.
Peshawar . . .	1, 2, 6, 7, 8, 11, 12 and 17.	28·640, —·010, 62·6, 91·4, +6·5, 62·9, +2·5 and 3·9.	28·639, —·011, 62·7, 91·5, +6·6, 63·1, +2·7 and 4·1; *omit* (*b*) against the station.
Jacobabad . . .	3.	S 74 E.	S 77 E.
Karachi . . .	3 and 17.	N 84 W and 2·7.	N 87 W and 2·8.
Chhor	6 and 15.	69·6 and 54.	69·7 and 53.
Miranshah . . .	1, 5, 6, 7 and 11.	26·871, 68·6, 57·6, 80·2 and 60·7.	26·872, 68·7, 57·7, 80·4 and 60·6; *omit* (*c*) against the station.
Kalat	18, 19 and 22.	0, —0·54 and 0.	0·09, —·045 and 0·09 and *insert* 25 in column 23.
Page 30 . . .	*Omit* the footnotes "(*b*) mean of 29 days" and "(*c*) mean of 28 days."		
Jhalrapatan . .	4.	3·7.	3·4.
Deesa	1 and 2.	29·356 and +·016.	29·358 and +·018.
Bhuj	1 and 2.	29·476 and +·009.	29·479 and +·012.
Dwarka . . .	7 and 8.	86·9 and +2·1.	86·8 and +2·0.
Rajkot . . .	17.	3·4.	3·7.
Veraval . . .	17.	2·7.	2·8.
Surat	17.	3·2.	3·3.
Bhavnagar . . .	1 and 2.	29·806 and +·030.	29·807 and +·031.
Dohad . . .	1.	29·843.	28·843.
Neemuch . . .	*Omit* the figures in columns 6, 15 and 16.		
Bhopal . . .	11 and 13.	72·3 and 59.	73·3 and 60.
Amraoti . . .	*Omit* the figures in columns 6, 15 and 16.		
Hoshangabad . .	*Omit* the figures in columns 6, 15 and 16.		
Seoni	1.	28·800.	27·800.
Nagpur . . .	6.	64·9.	65·0.
Page 31 . . .	*Omit* the footnote "(*l*) mean of 19 days."		
Pendra . . .	1.	27·733.	27·773.
Raipur . . .	1 and 2.	28·811 and +0·07.	28·815 and +·011.
Chanda . . .	4.	3·5.	3·6.

APRIL 1932—*concld.*

Reference.	Figure Column.	For	Read
Jagdalpur . . .	1, 2, 4, 6, 7, 11 and 12.	28·005 (*b*), —·007, 2·7 (*b*), 70·0 (*b*), 99·7 (*b*), 71·2 (*b*) and —0·8.	28·001, —·011, 2·7, 70·0, 99·7, 71·1 and —0·9.
Page 31 . . .		*Omit* the footnote "(*b*) mean of 29 days."	
Ratnagiri . . .	17.	1·2.	1·4.
Belgaum . . .	18, 19, 20 and 21.	4·57, +2·97, 5 and +1·7.	6·48, +4·88, 7 and +3·7.
Aurangabad . .	7 and 8.	100·2 and —1·4.	99·8 and —1·8.
Hyderabad (Dn.) . .	7 and 8.	100·3 and —0·9.	100·8 and —0·4.
Chitaldrug . . .	3.	S 61 W.	S 65 W.
Mysore . . .	4.	6·6.	3·2.
Calicut . . .	18 and 19.	2·02 and —1·26.	2·05 and —1·23.
Madura . . .	7 and 8.	98·0 and —1·1.	98·3 and —0·8.
Negapatam . . .	18 and 19.	3·05 and +2·48.	3·12 and +2·55.
Trichinopoly . .	17.	3·8.	3·6.
Salem	1 and 2.	28·908 and —·007.	28·922 and +·007.
Cuddalore . . .	18, 19, 20 and 21.	2·08, +1·48, 2 and +1·0.	2·81, +2·21, 3 and +2·0.
Vellore . . .	11, 12, 18 and 19.	76·1, —0·1, 0·20 and —0·75.	76·2, 0, 0·23 and —0·72.
Vizagapatam . .	4.	4·6.	4·7.
Gopalpur . . .	4, 11, 12, 17, 18, 19, 20, 21 and 22.	11·3, 76·7, —0·4, 3·7, 0·01, —0·78, 0, —1·6 and 0·01.	11·1, 76·6, —0·5, 3·8, 0·14, —0·65, 1, —0·6 and 0·13.
Mahableshwar . .	11.	66·2.	66·4.
Coonoor . . .	1 and 17.	23·470 and 3·4.	24·470 and 3·7.
Cuddapah . . .	18, 19, 20, 21 and 22.	0·01, —0·44, 0, —0·9 and 0·01.	0·14, —0·31, 1, +0·1 and 0·12.

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Reference.	Figure Column.	For	Read
Victoria Point . .	2, 8, 12, 16, 19 and 21.	+·005, +1·2, +1·0, —6, —6·65 and —5·6.	+·016, +1·6, +1·2, —7, —9·31 and —6·6.
Bassein . . .	15 and 16.	71 and —13.	72 and —12.
Toungoo . . .	18, 19, 22 and 23.	7·95, +0·23, 1·76 and 20.	6·98, —0·74, 1·57 and 16.
Kyaukpyu . . .	8, 12 and 19.	+0·9, +2·0 and —4·76.	+0·7, +1·7 and —3·78.
Lashio . . .	2.	+·010.	+·013.
Tezpur . . .	18 and 19.	17·36 and +7·41.	17·45 and +7·50.
Dhubri . . .	18, 19, 20 and 21.	17·85, +3·16, 15 and +0·1.	18·24, +3·55, 16 and +1·1.
Silchar. . . .	18 and 19.	19·59 and +4·00.	20, 23 and +4·64.
Srimangal . . .	2.	+·002.	—·003.
Cox's Bazar . . .	2, 8, 12, 16, 19 and 21.	+·016, +0·8, +1·4, —7, —8·17 and —2·1.	+·019, +0·6, +0·8, —8, —7·67 and —1·0.
Chittagong . . .	3 and 4.	S 38 E and 9·2 (*a*).	S 37 E and 9·2.
Mymensingh. . .	1 and 2.	29·642 (*a*) and —·019.	29·645 and —·016.
Khulna . . .	2, 8, 12, 16, 19 and 21.	*Insert* —·022, +0·7, +1·7, +6,	+3·01 and —3·6.
Jessore . . .	1, 2, 15, 16 and 17.	29·650, —·010, 81, —1 and 5·1.	29·647, —·013, 82, 0 and +5·0.
Satkhira . . .	3, 5, 7 and 17.	S 36 W, 84·6, 95·3 and 5·4.	S 39 W, 84·7, 95·4 and 5·5.
Satkhira . . .	2, 8, 12, 16, 19 and 21.	*Insert* —·034, +0·9, +2·0, —2,	+2·59 and —3·9.
Saugor Island . .	1, 2, 4, 5, 6 and 17.	29·661, —·007, 18·6, 84·0, 86·0 and 7·5.	29·660, —·008, 18·8, 83·9, 79·9 and 7·9.
Sandheads . . .	1, 2, 6, 15, 16, 17, 18, 19 and 21.	29·650 (*a*), —·041, 77·8, 77, —8, 4·8, 6·90, +4·70 and 0.	29·671, —0·29, 80·3, 87, +3, 4·5, 6·04, +4·40 and 1·0.
Midnapore . . .	1, 2 and 17.	29·515, —·002 and 4·5.	29·516, —·001 and 4·3.
Asansol . . .	4, 8, 12, 15, 16, 19 and 21.	53, +0·3, +1·7, 58, —14, —0·24 and —0·3.	5·4, —0·1, +2·0, 60, —8, +1·23 and 1·2,
		Insert +·016 in column 2.	
Chaibasa . . .	8, 12 and 16.	+0·1, +1·4 and 0.	—1·1, +0·4 and +1.
Purnea . . .	3.	N 82 E.	N 77 E.
Darbhanga . . .	4.	11·8.	4·8.
Motihari . . .	2, 8, 12 and 16.	*Insert* —·027, +4·6, +0·8 and —13.	
Naya Dumka . .	10, 18 and 19.	10, 1·66 and —1·87.	12, 1·67 and —1·86.
Maymyo . . .	17.	3·4.	3·6.
Cherrapunji . . .	18, 19 and 22.	117·75, +71·47 and 31·40.	117·77, +71·49 and 31·42.
Kalimpong . . .	2, 8, 12, 16, 19 and 21.	*Insert* —·012, +·05, +0·3, —8, +1·58 and +0·2.	

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Reference.	Figure Column.	For	Read
Gorakhpur . . .	5, 6, 15 and 16.	87·6, 73·2, 47 and —15.	87·9, 73·8, 49 and —13.
Bahraich . . .	1 and 2.	29·209 and —·024.	29·206 and —·027.
Page 37 . . .	Station.	Aligarh.	Aligarh (*a*).
Bareilly . . .	4.	3·1.	2·6.
Delhi		*Insert* —·003 in column 2.	
Ludhiana . . .	1 and 2.	28·822 (*b*) and +·013.	28·824 and +·15.
Lahore . . .	8, 12 and 16.	—4·2, —3·0 and —9.	—3·2, —1·1 and —3.
Sialkot . . .	1, 2, 3, 4, 5, 7, 8, 11, 12, 15 and 16.	28·821, +·032, N 29 E, 3·1, 84·4, 99·0, —3·4, 71·8, —2·6, 33 and —10.	28·818, +·029, N 26 E, 3·0, 84·6, 99·5, —2·9, 71·7, —2·7, 32 and —11.
		Omit "(*a*)" against the station.	
Khushab . . .	11 and 12.	72·1 and —4·6.	72·5 and —4·2.
Lyallpur . . .	1 and 2.	29·048 and +·040.	29·049 and +·041.
Montgomery . .	1, 2, 5 and 17.	29·063 (*a*), +·017, 85·6 and 1·9.	29·070, +·024, 85·5 and 2·2.
Bahawalpur . .	1, 18 and 22.	29·244 (*a*), 0 and 0.	29·246, 0·04 and 0·04 and *insert* 10 in column 23.
Dras	18 and 19.	3·43 and +1·04.	3·42 and +1·03.
Gilgit	18, 19, 22 and 23.	0·11, —0·62, 0·04 and 9.	0·16, —0·57, 0·05 and 7.
Peshawar . . .	11 and 12.	68·8 (*a*) and —1·4.	69·2 and —1·0.
Miranshah . . .	1, 5, 6, 7, 11 and 15.	26·792, 74·6, 64·4, 85·9, 65·3 and 56.	26·789, 75·0, 64·8, 86·4, 65·7 and 57; and *insert* 100 and 28 in columns 9 and 10.
Jacobabad . . .	8 and 9.	110·0 and —2·1.	109·6 and —2·5.
Chhor	6 and 15.	75·2 and 51.	75·5 and 52.
Hyderabad (Sind) .	17.	1·2.	1·5.
Karachi . . .	3.	S 73 W.	S 74 W.
Badin	6, 11 and 15.	76·9 (*j*), 77·2 (*a*) and 57.	76·5 (*o*), 76·9 (*b*) and 76.
Page 38 . . .	*Omit* the footnote "(*j*) mean of 21 days" and *insert* "(*o*) mean of 16 days".		
Bikaner . . .	7 and 8.	105·4 and —2·0.	105·6 and —1·8.
Jodhpur . . .	5, 15 and 16.	91·2, 27 and —14.	91·1, 28 and —13.
Barmer . . .	5.	90·4.	90·3.
Jaipur . . .	17.	0·3.	0·4.
Bhuj	7 and 8.	104·7 and +3·5.	104·4 and +3·2.
Rajkot . . .	17.	2·9.	3·3.
Surat	4.	6·3.	6·6.
Dohad . . .	1.	29·720.	28·720.

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Reference.	Figure Column.	For	Read
Bhopal . . .	11 and 13.	79·1 and 70.	80·1 and 71.
Pendra . . .	4.	5·5.	5·6.
Raipur . . .	4, 6, 18 and 19.	4·8, 71·4, 0·02 and —0·98.	4·6, 71·7, 0·03 and —0·97.
Kanker . . .	11.	80·1.	79·8.
Jagdalpur . . .	1, 2, 4 and 17.	27·897, —·015, 5·6 and 1·3.	27·894, —·018, 3·2 and 1·6.
Ratnagiri . . .	18, 19 and 22.	2·72, +1·36 and 1·23.	2·82, +1·46 and 1·33.
Marmagao . . .	11.	79·0 (*a*).	80·0 (*a*).
Sholapur . . .	18 and 19.	0·43 and —0·60.	0·39 and —0·64.
Miraj	3.	N 73 W.	N 79 W.
Belgaum . . .	1 and 2.	27·242 and —·025.	27·239 and —·028.
Parbhani . . .	18 and 19.	0·80 and —0·55.	0·89 and —0·46.
Nizamabad . . .	1, 2, 11 and 12.	28·467, —·021, 81·8 and +0·8.	28·468, —·020, 82·0 and +1·0.
Raichur . . .	1, 2, 11, 12 and 17.	28·438 (*a*), —·007, 79·7, +0·5 and 2·5.	28·439 (*a*), —·006, 79·6, +0·4 and 2·6.
Hyderabad (Dn.) . .	3, 7, 8, 18 and 19.	S 47 W, 101·6, —1·5, 1·12 and +0·12.	S 52 W, 102·1, —1·0, 1·15 and +0·15.
Cochin . . .	3.	N 66 E.	N 61 E.
Pamban . . .	4.	10·1.	10·2.
Madura . . .	7 and 8.	95·6 and —4·4.	95·7 and —4·3.
Cuddalore . . .	4.	6·6.	6·7.
Kurnool . . .	5.	87·2.	87·5.
Nellore . . .	17.	5·7.	5·8.
Calingapatam . .	18, 19, 22 and 23.	4·52, +1·63, 1·45 and 24.	3·42, +0·53, 1·24 and 25.
Gopalpur . . .	1, 2, 18, 19, 20, 21 and 22.	29·627, +·004, 0·05, —1·92, 0, —3·1 and 0·04.	29·629, +·006, 0·74, —1·23, 2, —1·1 and 0·48.
Mukteswar . . .	18 and 19.	1·65 and —0·89.	1·64 and —0·90.
Mussooree . . .	17 and 18.	3·9 and 1·42.	3·7 and 1·45.
Simla	11 and 12.	55·9 and 1·5.	56·1 and —1·3.
Murree . . .	1, 3, 4, 6 and 17.	23·174, N 47 E, 3·7, 48·2 and 3·9.	24·187, N 41 E, 3·6, 48·3 and 3·8.
		Omit "(*a*)" against the station.	
Parachinar . . .	1, 2, 3, 5, 6, 7, 8, 11, 12 and 17.	24·386, +·35, S 16 W, 67·3, 53·0, 75·8, 3·8, 53·3, —2·4 and 2·9.	24·387, +·036, S 23 W, 67·7, 53·2, 76·3, —3·3, 53·7, —2·0 and 2·8.
Drosh	18 and 19.	0·87 and —1·08.	0·86 and —1·09.
Mount Abu . . .	1 and 2.	25·928 and —0·11.	25·925 and —0·14.
Coonoor . . .	1 and 17.	23·384 and 6·9.	24·384 and 6·7.

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Reference.	Figure Column.	For	Read
Victoria Point . .	2, 8, 16, 19 and 21.	+·003, —0·9, 0, —1·16 and +5·1.	+·013, —0·5, —1, —2·58 and +4·6.
Mergui. . . .	17.	5·6.	5·5.
Amherst . . .	18.	39·28.	38·51.
Bassein . . .	7, 8, 18 and 19.	87·4, +1·0, 19·27 and —3·75.	87·7, +1·3, 19·26 and —3·76.
Diamond Island . .	5 and 17.	82·4 and 8·0.	82·1 and 8·1.
Goa	19 and 21.	*Insert* —5·27 and +1·9.	
Kyaukpyu . . .	8, 12 and 19.	—0·2, +0·7 and +1·95.	—0·1, +0·5 and —0·35.
Akyab . . .	18 and 19.	33·40 and —13·54.	33·42 and —13·52.
Yamethin . . .	18 and 19.	3·88 and —1·23.	3·89 and —1·22.
Maymyo . . .	1, 18 and 19.	29·351, 2·72 and —2·85.	29·361, 2·76 and —2·81.
Srimangal . . .	2.	—·014.	—·015.
Cox's Bazar . . .	2, 8, 12, 16, 17, 18, 19, 20 and 21.	—·014, +0·4, +2·0, —4, 8·7, 36·75, +5·02, 17 and —3·1.	—·009, +0·3, +1·5, —3, 8·8, 36·57, +6·43, 16 and —4·1.
Chittagong . . .	4, 13, 18 and 19.	+1·0 (*c*), 74, 24·24 and +3·45.	10·5 (*c*), 73, 24·25 and +3·46.
		Omit 11 and 29 in figure column 14.	
Narayanganj . .	6, 15 and 16.	80·2, 85 and —3.	79·8, 83 and —5.
Barisal . . .	6.	80·0.	80·2.
Khulna . . .	2, 8, 12, 16, 19 and 21.	*Insert* —·040, +1·3, +2·1, +1, —4·54 and —1·0.	
Jessore . . .	4, 5, 18 and 19.	5·6, 84·2, 9·69 and —2·98.	5·4, 84·1, 8·89 and —3·78.
Satkhira . . .	2, 8, 12, 16, 19 and 21.	*Insert* —·055, +0·6, +2·0, +1, +5·23 and —2·8.	
Calcutta . . .	14.	*Insert* 29.	
Saugor Island . .	18 and 19.	5·56 and —5·98.	5·57 and —5·97.
Sandheads . . .	2, 17, 19 and 21.	—·056, 7·4, 3·89 and —2·7.	—·039, 7·3, —2·92 and —1·4.
Midnapore . . .	1, 2, 3, 4, 5, 6, 17, 18, 19, 20 and 21.	29·371, —·022, S 18 E, 4·3, 85·2, 80·7, 7·0, 4·19, —6·31, 6 and —7·0.	29·372, —·021, S 15 E, 4·2, 85·4, 80·6, 7·1, 3·99, —7·21, 5 and —8·0.
Burdwan . . .	6, 15 and 16.	80·4, 85 and +1.	80·7, 87 and +3.
Krishnagar . . .	1.	29·480.	29·479.
Krishnagar . . .	2, 8, 12 and 16.	*Insert* —·026, +0·3, +0·5 and 0.	
Asansol . . .	8, 12, 15, 16, 18, 19 and 21.	+1·8, +1·3, 74, —3, 8·40, —6·53 and —7·5.	+0·2, +1·4, 74, —4, 3·50, —5·44 and —6·9.
Asansol . . .	2.	*Insert* —·027.	
Malda	2.	*Insert* —·012.	
Chandbali . . .	1.	29·533.	29·513.
Chaibasa . . .	8, 12 and 16.	+6·4, +3·3 and —16.	+3·7, +2·1 and —12.

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Reference.	Figure Column.	For	Read
Darbhanga . . .	4, 6, 15, 16, 17, 18 and 19.	13·1, 76·5, 70, —13, 8·4, 7·75 and —0·28.	5·4, 79·3, 79, —4, 8·6, 8·32 and +0·29.
Darbhanga . . .	7, 8, 9, 10, 11, 12, 13 and 14.	*Omit* the figures; *Omit* the footnote (*r*) mean of 13 days.	
Kalimpong . . .	2, 8, 12, 16, 19 and 21.	*Insert* —·019, —0·5, +0·5, +2, —1·57 and +4·1.	
Haka	18.	22·98.	22·78.
Cawnpore . . .	4.	3·4.	3·1.
Bahraich . . .	6.	78·6.	78·5.
Fatehpur . . .	*Insert* "(*b*)" against the station.		
Jhansi . . .	18 and 19.	2·03 and —2·27.	2·06 and —2·24.
Roorkee . . .	5, 11, 12, 15 and 16.	91·4, 83·2, +4·4, 42 and —18.	91·7, 83·4, +4·6, 41 and —19.
Dehra Dun . . .	17.	3·4.	2·4.
Ambala . . .	4 and 17.	5·2 and 1·2.	5·0 and 1·3.
Ludhiana . . .	11, 12 and 17.	83·5, +2·3 and 2·0.	83·4, +2·2 and 2·3.
Lahore . . .	8, 12 and 16.	+1·9, +1·9 and —12.	+2·8, +3·7 and —8.
Khushab . . .	6, 15, 16, 18, 19 and 22.	78·1, 43, +1, 0·32, —1·05 and 0·32.	76·3, 38, —4, 0·35, —1·02 and 0·35.
Montgomery . . .	1, 2, 6, 15 and 16.	28·88 (*b*), —·021, 77·2, 51 and +10.	28·882, —·026, 77·1, 50 and +
Sonamarg . . .	18, 19 and 22.	5·10, +2·46 and 2·00.	5·19, +2·55 and 2·09.
Skardu . . .	18 and 19.	0·51 and +0·24.	0·53 and +0·26.
Dera Ismail Khan .	18 and 19.	0·62 and —0·05.	0·64 and —0·03.
Fort Sandeman . .	7, 8, 18 and 19.	99·2 (*d*), —0·8, 0·19 and —0·62.	97·8, —2·2, 0·23 and —0·58.
Dalbandin . . .	1, 2, 6, 11 and 12.	26·820, —·005, 64·2, 72·7 and —0·2.	26·819, —·006, 64·0, 72·4 and —0·5.
		Omit "(*b*)" against the station.	
Jacobabad . . .	11 and 12.	84·9 and +0·2.	84·7 and 0.
Badin	6, 11, 13, 14 and 15.	80·1, 78·1, 66, 3 and 72.	78·6 (*g*), 80·0 (*i*), 72, 14 and 67 (*g*).
Barmer . . .	5.	90·4.	90·3.
Jaipur . . .	17.	0·8.	0·5.
Ajmer	7 and 8.	105·3 and +4·7.	100·5 and —0·1.
Guna	18 and 20.	1·50 and 2.	1·67 and 3.
Indore . . .	3.	N 86 W.	N 84 W.
Bhopal . . .	11 and 13.	78·5 and 71.	79·5 and 72.
Page 46 . . .	*Insert* the footnotes "(*g*) mean of 24 days" and "(*i*) mean of 22 days".		
Akola	7, 8, 18 and 19.	99·3, +0·5, 3·66 and —1·72.	99·6, +0·8, 2·76 and —2·62.
Khandwa . . .	1, 2, 18, 19, 20 and 21.	28·594, +·026, 3·81, —1·61, 3 and —4·0.	28·595, +·027, 3·91, —1·51, 4 and —3·0.

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Reference.	Figure Column.	For	Read
Saugor . . .	4.	7·5.	7·0.
Kanker . . .	18.	4·51.	4·56.
Chanda . . .	17.	2·7.	2·8.
Jagdalpur . . .	3, 4, 7, 8 and 17.	S 49 W, 6·2, 95·2, +4·9 and 4·5.	S 45 W, 3·7, 95·5, +5·2 and 4·6.
Ratnagiri . . .	1 and 2.	29·539 and +·037.	29·540 and +·038.
Sholapur . . .	4, 7 and 8.	5·9, 95·7 and +2·1.	5·8, 96·0 and +2·4.
Belgaum . . .	17.	7·0.	7·1.
Hyderabad . . .	7, 8, 18, 19, 20 and 21.	95·6, +1·1, 2·02, —2·57, 3 and —3·6.	96·4, +1·9, 2·19, —2·40, 4 and —2·6.
Chitaldrug . . .	3.	S 70 W.	S 69 W.
Bangalore . . .	3, 18, 19, 20 and 21.	N 87 W, 2·41, —0·48, 5 and —0·8.	N 89 W, 2·72, —0·17, 6 and +0·2.
Hambantota . .	3, 4, 18, 19, 20 and 21.	S 89 W, 15·6, 0·84, —1·32, 2 and —3·9.	W, 15·9, 1·07, —1·09, 3 and —2·9; *Omit* "(*b*)" against the station.
Nuwara Eliya . .	1, 5, 11, 17 and 18.	24·030, 58·7, 66·9, 54·6, 7·2 and 6·63.	24·031, 58·7 (*b*), 66·8, 54·6 (*b*), 7·3 and 6·65; *Omit* "(*b*)" against the station.
Trichinopoly . .	3.	S 67 W.	S 69 W.
Coimbatore . . .	17.	6·6.	6·8.
Salem	18 and 19.	4·49 and +1·47.	4·44 and +1·42.
Cuddalore . . .	17.	5·1.	5·0.
Vellore . . .	7 and 8.	96·1 and —1·4.	95·1 and —2·4.
Anantapur . . .	18, 19, 20, 21, 22 and 23.	1·23, —0·78, 3, —0·5, 0·55 and 7.	4·54, +2·53, 5, +1·5, 2·51 and 4.
Nellore . . .	1 and 2.	29·608 (*b*) and +·010.	29·606 and +·008.
Masulipatam . .	18 and 19.	3·26 and —1·25.	3·23 and —1·28.
Cocanada . . .	18 and 19.	3·28 and —1·53.	3·31 and —1·50.
Gopalpur . . .	17, 18, 19, 20, 21, 22 and 23.	7·2, 0·27, —5·55, 1, —6·9, 0·12 and 22.	7·1, 1·02, —4·80, 3, —4·9, 0·64 and 30.
Simla	17, 18 and 19.	2·7, 4·78 and —2·35.	2·6, 4·79 and —2·34.
Cherat . . .	1 and 2.	25·477 and 0.	25·475 and —·002.
Mount Abu . . .	1 and 2.	25·821 and +·009.	25·824 and +·012.
Kodaikanal . .	18, 19, 20, 21, 22 and 23.	1·06, —3·00, 3, —6·9, 0·55 and 29.	0·56, —3·50, 2, —7·9, 0·14 and 27.
Coonoor . . .	17.	6·0.	5·9.

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Reference.	Figure Column.	For	Read
Victoria Point . .	2, 8, 12, 19 and 21.	—·010, —1·2, +0·2, +2·61, +5·5.	—·002, —1·1, 0, +2·59 and +4·8.
Rangoon . . .	3 and 17.	S 5 W and 9·5.	S 2 W and 9·7.
Toungoo . . .	18 and 19.	20·04 and +2·40.	20·08 and +2·44.
Kyaukpyu . . .	8, 12, 16, 19 and 21.	—1·5, —0·1, +2, +10·50 and +2·4.	—1·3, —0·2, +1, +7·10 and +1·7.
Yamethin . . .	8 and 12.	—5·7 and +2·5.	+0·5 and —0·1.
Mandalay . . .	4, 18, 19, 20 and 21.	6·7, 6·70, +3·41, 8 and +2·3.	6·2, 6·80, +3·51, 9 and +3·3.
Monywa . . .	8 and 12.	—4·9 and +2·8.	+0·9 and —0·4.
Lashio . . .	8 and 12.	—6·8 and +2·7.	—1·2 and —0·4.
Myitkyina . . .	8, 12, 18 and 19.	—7·4, +3·0, 16·14, —3·03.	+0·2, +0·1, 16·49 and —2·68.
Dibrugarh . . .	1, 2, 7, 8, 11, 12, 18, 19, 20 and 21.	29·219, —·033, 89·8, +3·1, 75·6, +0·2, 17·93, —3·80, 15 and —7·1.	29·215, —·037, 89·5, +2·8, 75·2, —0·2, 18·23, —3·56, 16 and —6·1; *Omit* "(*a*)" against the station.
Silchar. . . .	14.	2.	5.
Srimangal . . .	2.	—·047.	—·042.
Cox's Bazar . .	2, 8, 12, 18, 19 and 21.	—·044, —1·0, +1·9, 38·77, +3·88 and +1·9..	—·042, —0·8, +1·8, 38·97, +3·03 and +1·5.
Khulna . . .	2, 8, 12, 16, 19 and 21.	*Insert* —·063, —1·3, +0·1, [illegible] +3·02 and +2·2.	
Satkhira . . .	2, 8, 12, 16, 19 and 21.	*Insert* —·075, —0·7, +0·3, +1, —0·01 and —3·0.	
Saugor Island .	1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 17, 18, 19 and 20.	29·446, —·072, S 18 E, 14·4(*c*), 82·3, 79·2, 86·1, —1·7, 79·3, —1·0, 9·5, 18·90, +4·25 and 22.	29·449, —·069, S 15 E (*a*) 13·7 (*b*), 82·4, 79·4, 86·2, —1·6, 79·4, —0·9, 9·5 (*a*), 18·91, +4·26 (*a*) and 22 (*a*) and *omit* "(*b*)" against the station.
Sandheads . . .	2, 18, 19 and 21.	—·103, 9·90, +2·13 and +3·6.	—·082, 10·01, +0·09 and +1·9.
Krishnagar . .	2, 8, 12 and 16.	*Insert* —·056, —0·2, —0·7 and —1.	
Krishnagar . .	18.	5·42.	5·48.
Asansol . . .	2, 8, 12, 16, 19 and 21.	*Insert* —·052, —0·6, —0·3, —2, +1·42 and +1·1.	
Berhampore . .	1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 17, 18, 19, 20 and 21.	29·410, —·060, S 69 E, 4·2, 79·0, 77·6, 87·5, —2·1, 75·0, —3·3, 8·7, 9·25, —1·60, 21 and +5·1.	29·428, —·042, S 70 E, 4·1, 82·5, 80·2, 90·4, +0·8, 78·1, —0·8, 9·1, 9·71, —1·14, 2·2 and +6·1; *Omit* "(*a*)" against the station.
Malda	2, 8, 10, 12, and 16.	*Insert* —·027, —1·2, 18, —0·4 and —3.	
Balasore . . .	13 and 14.	76 and 12.	75 and 30.
Angul	18, 19 and 22.	28·87, +17·88 and 9·69.	21·74, +10·75 and 9·60.
Chaibasa . . .	8 and 16.	—1·7 and +3.	—1·1 and +1.
Darbhanga . . .	1, 2, 4, 5, 6, 15, 16 and 17.	29·304, —·060, 12·2, 84·5, 82·6 (*a*), 91, + 4 and 6·5.	29·305, —·056, 5·2, 84·6, 79·7, 79, —8 and 6·9.

JULY 1932—*contd.*

Reference.	Figure Column.	For	Read
Naya Dumka . .	17.	4·4.	7·6.
Maymyo . . .	8 and 12.	—7·7 and +8·2.	+0·9 and +1·2.
Haka	4.	5·3.	5·0.
Kalimpong . .	2, 8, 12, 16, 19 and 21.	*Insert* —·023, +0·8, —0·2, —2, —7·20 and —7·3.	
Gorakhpur . . .	4.	3·1 (*d*).	3·4 (*h*).
Benares . . .	18 and 19.	7·10 and —4·44.	7·29 and —4·25.
Mainpuri . . .	18, 19, 22 and 23.	6·26, —1·04, 2·30 and 20.	4·26, —3·04, 2·07 and 28.
Aligarh . . .	1, 5, 18 and 20.	28·878, 86·9, 9·35 and 11.	28·874, 87·2, 9·92 and 12.
Roorkee . . .	18, 19, 20 and 21.	13·33, +1·33, 14 and +2·1.	13·89, +1·89, 15 and +3·1.
Lahore . . .	8, 12 and 16.	—2·1, +0·8 and +2.	—1·4, +1·8 and +4.
Page 53 . . .	footnote.	(*d*) mean of 27 days.	(*l*) mean of 23 days.
Khanpur . . .	1, 3, 6, 7 and 11.	29·136, S 55 W, 80·2, 104·3 and 82·6.	29·135, S 54 W, 80·3, 104·2 and 82·7.
Sonamarg . . .	18, 19, 20, 21, 22 and 23.	3·70, +·003, 8, —1·1, 1·00 and 17.	2·79, —0·88, 7, —2·1, 0·62 and 19.
Dras	1, 2, 3, 4, 6, 11 and 12.	20·687, +·010, S 66 W, 5·7 (*b*), 55·1, 52·3 and +4·1.	20·686, +·009, S 59 W, 5·8 (*a*), 55·2, 52·4 and +4·2 and *omit* "(*a*)" against the station.
Miranshah . . .	18 and 20.	2·48 and 6.	2·03 and 5.
Dera Ismail Khan .	11 and 12.	8·12 and —1·5.	81·5 and —1·2.
Fort Sandeman . .	11, 12, 18 and 19.	2·72 and +0·66.	2·73 and +0·67 and *omit* the figures in columns 11 and 12.
Las Bela . . .	1.	29·191.	29·187.
Sukkur . . .	1, 5, 6, 11 and 15.	29·209, 86·4, 80·7, 84·6 (*k*) and 78.	29·235 (*e*), 86·8 (*e*), 80·3 (*e*), 84·8 (*h*) and 74 (*e*).
Chhor	18 and 20.	4·20 and 8.	4·50 and 9.
Hyderabad (Sind) .	11.	82·1 (*a*).	82·1.
Karachi . . .	4.	10·5.	11·0.
Bikaner . . .	7, 8, 9 and 10.	99·6, —1·8, 108 and 5, 6, 7	99·9, —1·5, 109 and 6, 7.
Surat	18 and 19.	32·79 and +16·09.	32·87 and 16·17.
Page 54 . . .	*Omit* the footnotes "(*b*) mean of 29 days" and "(*k*) mean of 20 days" and *insert* "(*e*) mean of 26 days".		
Bhopal . . .	11.	73·5 (*a*).	74·3 (*a*).
Umaria . . .	1.	28·987.	27·987.
Dohad . . .	1.	28·537.	28·536.
Guna	18.	14·76.	14·83.
Hoshangabad . .	17.	8·5.	7·2.
Saugor. . . .	4.	5·6.	5·5.

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Reference.	Figure Column.	For	Read
Seoni	1 and 2.	27·499 and —·057.	27·500 and —·056.
Pendra . . .	18 and 19.	31·81 and 18·83.	32·75 and +19·77.
Raipur . . .	1, 2, 18, 19, 20 and 21.	28·519, —·069, 16·57, +2·13, 22 and +6·6.	28·518, —·070, 17·55, +3·11, 23 and +7·6.
Jagdalpur . . .	4, 18, 19, 20 and 21.	9·4 (*b*), 20·44, +6·89, 25 and +7·6.	4·9 (*c*), 20·94, +7·39, 26 and +8·6.
Ratnagiri . . .	1 and 2.	29·466 and —·039.	29·464 and —·041.
Ahmednagar . .	1 and 2.	27·478 and —·048.	27·477 and —·049.
Bijapur . . .	4, 11 and 12.	8·2, 71·9 (*h*) and +1·1.	8·3, 72·0 (*j*) and +1·2.
Nizamabad . . .	6.	72·8.	73·0.
Hyderabad (Dn.) . .	7 and 8.	85·8 and —1·8.	86·3 and —1·3.
Bangalore . . .	18 and 19.	4·18 and 0.	4·17 and —0·01.
Page 55 . . .	*Omit* the footnote "(*h*) mean of 23 days" and *insert* "(*j*) mean of 21 days" and "(*c*) mean of 28 days".		
Vellore . . .	*Omit* the figures in columns 7 and 8.		
Cuddapah . . .	17.	7·6.	7·5.
Anantapur . . .	18, 19, 20 and 21.	0·85, —2·53, 2 and —2·3.	0·96, —2·42, 3 and —1·3.
Calingapatam . .	18 and 19.	5·32 and —·053.	5·44 and —0·41.
Gopalpur . . .	18, 19, 20 and 21.	4·86, —2·02, 9 and —0·6.	6·47, —0·41, 10 and +0·4.
Simla	4.	2·1.	2·0.
Dalhousie . . .	18.	25·01.	26·61.
Murree . . .	1, 3, 6, 11, 12, 17, 18, 19, 20 and 21.	23·072, S 28 E, 63·1, 62·5, +0·1, 6·8, 13·85, +2·01, 13 and +0·5.	23·068, S 23 E, 63·2, 62·6, +0·2, 6·9, 16·17, +4·33, 14 and +1·5; *Omit* "(*a*)" against the station.
Cherat . . .	1, 2, 7 and 8.	25·443 (*a*), —·012, 88·0 and —1·4.	25·447, —·008, 87·8, and —1·6.
Parachinar . . .	18 and 19.	7·95 and +4·57.	7·94, and +4·56.
Aden	5, 6, 15 and 16.	84·2, 78·1, 75 and +3.	84·1, 77·8, 74 and +2.
Page 56 . . .	*Omit* the footnote "(*c*) mean of 28 days".		

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Reference.	Figure Column.	For	Read
Victoria Point . .	2 and 3.	+·014 and S 63 E.	+·024 and S 61 E.
Bassein . . .	14.	6 and 7.	5 days.
Diamond Island . .	18 and 19.	14·67 and —8·24.	14·68 and —8·23.
Kyaukpyu . . .	19.	—4·16.	—4·08.
Myitkyina . . .	1 and 2.	29·211 and +·022.	29·210 and +·021.
Srimangal . . .	18 and 19.	9·37 and —3·87.	9·34 and —3·90.
Satkhira . . .	4.	3·3.¼	3·4.⅝
Krishnagar . . .	2, 8, 12 and 16.	*Insert* +·017, +0·5, —0·9 and —2	
Malda	2, 8, 12 and 16.	*Insert* +·040, +0·8, —0·6 and 0 .	
Chaibasa . . .	8.	+0·6.	+0·8.⅝
Hazaribagh . . .	2, 8, 12 and 16.	*Insert* +·104, +1·7, +0·3 and —5	
Darbhanga . . .	4, 5, 6, 17, 18 and 19.	7·9, 83·8, 80·4, 7·8, 6·98 and —6·98.	3·7, 83·9, 8·02, 7·7, 8·42 and —5·54.
Cherrapunjee . .	19.	+32·06.	+42·06.
Mainpuri . . .	18 and 19.	10·43 and +1·74.	10·21 and +1·52.¾
Aligarh . . .	1, 18 and 20.	29·000, 7·79 and 11.	28·993, 7·89 and 12.
Bareilly . . .	7 and 8.	91·7 and +1·5.	91·8 and +1·6.
Dehra Dun . . .	1, 2, 7, 8, 11, 12, 17, 18, 19, 20 and 21.	27·396, +·019, 85·2, +1·4, 72·4, —0·6, 7·3, 36·95, +8·17, 20 and —1·3.	27·399, +·022, 85·1, +1·3, 72·3, —0·7, 7·2, 37·87, +9·09, 21 and —0·3; *Omit* '*a*' against the station.
Ludhiana . . .	18 and 19.	5·72 and —1·22.	5·73 and —1·21.
Lahore . . .	8, 12 and 16.	—1·7, —0·6 and —1.	—1·3, +0·3 and +2.
Sialkot . . .	5, 6, 11, 12 and 17.	81·9, 78·4, 77·4, —0·9 and 3·9.¾	82·0, 78·5, 77·5, —0·8 and 3·8; *Omit* '*a*' against the station.
P. 61	*Omit* "(*a*) mean of 30 days" in the footnote.		
Khushab . . .	11 and 12.	80·6 and —0·8.	80·9 and —0·5.
Multan . . .	18 and 19.	1·85 and —0·13.¼	1·87 and —0·11.¼
Srinagar . . .	18, 19, 20 and 21.	1·35, —0·98, 5 and —0·3.¾	1·56, —0·77, 6 and +0·7.
Leh	7, 8, 11 and 12.	(*a*) 73·1, —3·4, 49·7 and 0.	(*a*) 75·7, —0·8, 49·5 and —0·2.
Peshawar . . .	1, 2, 5 and 6.	28·413, +·024, 85·3 and 76·9.	28·410, +·021, 85·4 and 77·0; *Omit* '*a*' against the station.
Miranshah . . .	3, 4, 5, 7, 11 and 18.	S 59 E, 6·9, 83·4, 93·5, 76·8 and 0·78.	S 64 E, 6·7, 83·5, 93·4, 76·7 and 0·83; *Omit* '*a*' against the station.
Fort Sandeman . .	*Omit* the figures in columns 11, 12, 13 and 14.		
Kalat	1, 2, 3, 4, 5, 6, 7, 8, 11, 12 and 17.	23·609, +·032, S 9 W, 5·1, 61·7, 56·0, 86·4, —4·4, 56·1, +3·9 and 1·2.	23·608, +·031, S 8 W, 5·0, 61·8, 56·2, 86·1, —4·7, 56·2, +4·0 and 1·4; *Omit* '*a*' against the station.

AUGUST 1932—*contd.*

Reference.	Figure Column.	For	Read
Las Bela . . .	1.	29·331.	29·335.
Jacobabad . . .	4.	2·8.	3·2.
Sukkur . . .	5, 6 and 15.	83·2, 77·1 and 75.	82·9(*n*), 74·0(*n*), 64(*o*) and *insert* 29·305 in column 1.
Chhor . . .	1 and 3.	29·558(*a*) and S 21 W.	29·552 and S 22 W.
Hyderabad (Sind) .	4.	10·8.	11·1.
Karachi . . .	4.	9·9.	13·4.
Bikaner . . .	7 and 8.	92·5 and —5·3.	92·7 and —5·1.
Barmer . . .	18 and 20.	3·27 and 5.	3·65 and 6.
Page 62 . . .		*Insert* the footnote "(*n*) mean of 17 days."	
Deesa	1, 2, 3, 4, 5, 7, 8, 15, 16 and 17.	29·186, +·026, S 50 W, 4·1, 78·6, 87·3, —2·1, 86, +2 and 7·7.	29·189, +·029, S 53 W, 4·0, 79·0, 87·6, —1·8, 84, 0 and 7·5; *Omit* '*a*' against the Station.
Bhavnagar . . .	3, 7 and 8.	W, 91·0 and —0·3.	S 89 W, 90·9 and —0·4.
Page 62 . . .		Footnote K= mean of 20 days, O=mean of 16 days.	
Jhalrapatan . .	3.	S 73 W.	S 70 W.
Dohad . . .	3 and 7.	S 46 W and 85·9.	S 45 W and 85·8.
Guna	18.	8·49.	8·56.
Akola	1, 2, 4, 6, 7 and 11.	28·780(*a*), +043, 4·6(*a*), 74·7(*a*), 88·4 (*a*) and 74·4(*a*).	28·776, +·039, 4·7, 74·7, 88·4 and 74·4.
Khandwa . . .	3.	S 66 W.	S 68 W.
Sutna	18 and 19.	8·48 and —4·30.	8·43 and —4·35.
Umaria . . .	1.	29·152.	28·152.
Nagpur . . .	18 and 19.	7·45 and —4·19.	7·49 and —4·15.
Pendra . . .	7 and 8.	83·2 and +1·4.	83·3 and +1·5.
Kanker . . .	18.	7·25.	7·27.
Jagdalpur . . .	17, 18, 19, 20 and 21.	7·0, 18·78, +2·19, 18 and —1·4.	7·1, 18·88, 2·29, 19 and —0·4.
Ratnagiri . . .	1 and 2.	29·560 and +·002.	29·555 and —·003.
Malegaon . . .	11 and 12.	71·4 and —0·5.	71·3 and —0·6.
Ahmednagar . .	3.	N 83 W.	N 85 W.
Bijapur . . .	18 and 19.	6·51 and +4·09.	7·41 and +4·99.
Nizamabad . . .	17.	4·3.	4·5.
Gulbarga . . .	3.	S 83 W.	S 81 W.
Raichur . . .	18, 19, 20, 21, 22 and 23.	12·36, +7·04, 4·00, 30, 11 and +2·4.	7·39, +2·07, 3·20, 28, 9 and +0·4.
Hyderabad (Dn.) .	6, 7 and 8.	72·9, 88·5 and +2·7.	72·8, 89·0 and +3·2.

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Reference.	Figure Column.	For	Read
Bangalore . . .	5.	72·0.	72·2.
Cochin . . .	18 and 19.	14·93 and +2·04.	14·94 and +2·05.
Madura . . .	1 and 2.	29·294 and —·016.	29·295 and —·015.
Nagapatam . . .	17.	7·0.	7·1.
Vellore . . .	7 and 8.	92·7 and —0·6.	92·6(*d*) and —0·7.
Madras . . .	18 and 19.	1·98 and —2·66.	1·99 and —2·65.
Anantapur . . .	18 and 19.	8·65 and +6·50.	8·64 and +6·49.
Bellary . . .	5, 15, 16, 18, 19, 20 and 21.	78·0, 76, +9, 6·76, +4·44, 8 and +3·9.	78·2, 74, +7, 6·90, +4·58, 9 and +4·9.
Cocanada . . .	18, 19, 20 and 21.	5·28, —0·21, 7 and —2·6.	4·78, —0·71, 6 and —3·6.
Vizagapatam . .	7 and 8.	87·9 and – 0·9.	87·8 and —1·0.
Gopalpur . . .	18, 19, 20 and 21.	4·84, —2·91, 6 and —5·1.	5·20, —2·55, 8 and —3·1.
Mukteswar . . .	18, 19, 20 and 21.	9·71, —2·14, 15 and —2·0.	10·61, —1·24, 16 and —1·0.
Mussooree . . .	1 and 2.	23·260 and +·058.	23·261 and +·059.
Dalhousie . . .	18.	19·38.	19·41.
Pachmarhi . . .	1 and 2.	26·280 and +·065.	26·281 and +·066.
Mercara . . .	18 and 19.	18·59 and —6·86.	18·69 and —6·76.
Coonoor . . .	18.	12·00.	11·99.

SEPTEMBER 1932.

Reference.	Figure Column.	For	Read
Port Blair . . .	14.	*Insert* 24.	
Victoria Point . .	2.	—·004.	+·009.
Amherst . . .	14.	20.	22.
Bassein . . .	18, 19, 22 and 23.	14·02, —1·18, 1·04 and 8.	14·03, —1·17, 1·73 and 21.
Gwa	18 and 22.	26·07 and 5·57.	26·25 and 5·75.
Gwa	19 and 21.	*Insert* +7·79 and +4·0.	
Toungoo . . .	4.	4·0 (*g*).	3·0(*g*); (*g*) mean of 24 days.
Yamethin . . .	15.	84.	84(*c*); (*c*) mean of 28 days.
Myitkyina . . .	1.	29·753.	29·253.
Noakhali . . .	18 *Insert* "*" against the total Rainfall and "* total of 28 days" in the footnote.		
Calcutta . . .	8.	—1·0.	+1·0.
Krishnagar . .	2, 8, 12 and 16.	*Insert* —·053, +1·6, 0 and +2.	
Malda	2, 8, 12 and 16.	*Insert* —·027, +1·1, +0·8 and —1.	
Chaibasa . . .	14.	4 days.	6 days.
Hazaribagh . .	2, 8, 12 and 16.	*Insert* —·035, +0·6, +0·4 and +1.	
Darbhanga . .	4, 5, 6, 11, 12, 17, 18 and 19.	7·7, 82·4, 79·6, 77·8, —0·6, 7·2, 10·44 and +1·48.	3·8, 82·5, 79·4, 77·7, —0·7, 7·3, 10·64 and +1·68.
Motihari . . .	2.	—059.	—063.
Naya Dumka . .	10.	*Insert* 26.	
Cherrapunji . .	19.	—3·57.	—3·87.
Gorakhpur . .	11.	78·7.	78·2.
Cawnpore . . .	7 and 8.	92·5 and +0·4.	92·8 and +0·7.
Gonda . . .	1.	29·285.	29·275.
Jhansi . . .	18 and 19.	16·88 and +10·96.	17·21 and +11·29.
Mainpuri . . .	18 and 19.	14·64 and +10·23.	15·38 and +10·97.
Aligarh . . .	1.	29·023.	29·109.
Ambala . . .	5, 6, 7, 8, 11, 12, 18 and 19.	79·0, 75·1, 91·1, —2·4, 74·4, +0·7, 23·90 and +19·30.	79·1, 75·0, 90·7, —2·8, 74·5, +0·8, 24·90 and +20·30.
Lahore . . .	8, 12 and 16.	+2·3, +1·1 and —6.	+2·7, +2·2 and —1.
Montgomery . .	1, 2, 18 and 19.	29·049(*b*), —·059, 0 and —1·53.	29·045, —·063, 0·01 and —1·52.
Multan . . .	1 and 2.	29·161 and —·065.	29·163 and —·063.
Bahawalpur . .	1 and 3.	29·221 and S 42 W.	29·220 and S 43 W.
Khanpur . . .	1, 5, 6, 7, 10, 15 and 17.	29·331, 84·0, 74·3, 104·2, "6, 7, 14" 62 and 0·2.	29·330, 83·8, 74·2, 104·1, "4, 6, 7," 64 and 0·4.

SEPTEMBER 1932—*contd.*

Reference.	Figure Column.	For	Read
Srinagar . . .	1, 2, 3, 5, 6, 7, 8, 11, 12, 13, 14, 15 and 16.	24·768, —·043, S 51 E, 62·1, 57·6, 88·8, +5·5, 52·3, —1·4, 46, "24, 26," 76 and —14.	24·773, —·038, S 59 E, 61·7, 57·2, 88·3, +5·0, 51·8, —1·9, 45, "23," 77 and —13; *Omit* (*c*) gainst the station.
Gulmarg . . .	17.	1·6.	1·3.
Peshawar . . .	1, 2, 5, 7 and 8.	28·467, —·072, 81·8, 98·6 and +3·8.	28·470, —·069, 81·7, 98·4 and +3·6; *Omit* (*b*) against the station.
Miranshah . . .	18 and 20.	0·32 and 2.	0·42 and 3.
Jacobabad . . .	4.	1·7.	1·3.
Sukkur . . .	1 and 4.	29·380 and 3·9.	29·385 and 4·2.
Hyderabad (Sind) .	4.	10·1.	10·5.
Bikaner . . .	4.	4·7 (*k*).	4·3 (*k*).
Page 70 . . .		*Insert* the footnote "(*k*) mean of 20 days."	
Quetta . . .	4.	3·1 (*b*).	3·0.
Las Bela . . .	1.	29·398.	29·403.
Kotah . . .	18, 19, 20 and 21.	3·15, —1·26, 4 and —1·5.	3·46, —0·95, 5 and —0·5.
Jhalrapatan . .	7.	91·6.	91·5.
Dwarka . . .	3.	S 88 W.	S 87 W.
Surat	1, 2, 3, 5, 6 and 17.	29·697, —·047, S 57 W, 80·2, 76·9 and 6·9.	29·696, —·048, S 60 W, 80·3, 76·8 and 6·8; *Omit* (*b*) against the station.
Dohad . . .	18 and 20.	5·98 and 5.	6·63 and 6.
Guna	7.	87·5.	87·7.
Umaria . . .	1.	29·136.	28·136.
Indore . . .	18 and 19.	15·14 and +8·61.	14·14 and +7·61.
Amraoti . . .	18 and 19.	3·28 and —2·93.	3·29 and —2·92.
Pendra . . .	17, 18, 19 and 22.	6·6, 7·96, +1·80 and 2·17.	6·5, 7·97, +1·81 and 2·18.
Kanker . . .	18 and 20.	8·96 and 14.	9·63 and 15.
Chanda . . .	18 and 19.	10·15 and +0·97.	10·05 and +0·87.
Jagdalpur . . .	18, 19, 20 and 21.	10·68, —0·26, 18 and +4·2.	10·93, —0·01, 19 and +5·2.
Ratnagiri . . .	18 and 19.	20·01 and +7·93.	20·03 and +7·95.
Marmagao . . .	3 and 17.	S 8 W and 8·0.	S 1 E and 8·1.
Malegaon . . .	18 and 19.	4·43 and —1·46.	4·47 and —1·42.
Belgaum . . .	6.	67·8.	68·1.
Aurangabad . .	5.	75·4.	75·2.
Nizamabad . . .	1 and 2.	28·461 and —·031.	28·467 and —·025.

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Reference.	Figure Column.	For	Read
Raichur . . .	3.	S 74 W.	S 71 W.
Hyderabad (Dn.) . .	7, 8, 18, 19, 20 and 21.	86·5, +0·1, 6·37, —0·67, 12 and +2·7.	87·0, +0·6, 6·48, —0·56, 13 and +3·7.
Bangalore . . .	18 and 19.	4·34 and —2·64.	4·39 and —2·59.
Calicut . . .	18 and 19.	14·60 and +6·87.	14·59 and +6·86.
Pamban . . .	5.	83·7.	83·5.
Vellore . . .	3, 4, 5, 6, 7, 8, 11, 12 and 17.	S 84 W, 5·1, 81·0, 73·5, 92·8, +0·8, 76·2, +0·9 and 5·3.	S 87 W, 4·7, 80·9, 73·3, 92·9, +0·9, 76·1, +0·8 and 5·4.
Cuddapah . . .	18, 19, 20 and 21.	2·81, —3·46, 5 and —3·7.	2·93, —3·34, 6 and —2·7.
Anantapur . . .	18 and 19.	3·93 and —3·35.	4·01 and —3·27.
Vizagapatam . .	4.	4·7.	4·8(*b*).
Calingapatam . .	18 and 19.	4·06 and —3·32.	4·11 and —3·27.
Gopalpur . . .	7 and 8.	88·7 and +0·3.	89·0 and +0·6.
Mukteswar . . .	21.	—4·6.	+4·6.

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Reference.	Figure Column.	For	Read
Victoria Point . .	2, 8, 12, 19 and 21.	—·006, —0·7, +1·0, —0·32 and +0·5	+·001, —0·3, +0·8, —0·13 and +1·1.
Kyaukpyu . . .	8, 12, 19 and 21.	+1·3, +2·0, 0 and —2·8.	+1·2, +1·9, —0·2, 4 and —1·4.
Monywa . . .	1.	*Insert* (*a*) against 29·589.	
Cox's Bazar . . .	10.	*Insert* 10.	
Comilla . . .	2, 8, 12 and 16.	*Insert* —·014, +2·9, +1·5 and —5.	
Mymensingh. . .	18, 19, 20 and 21.	7·03, +1·29, 7 and +1·3.	8·63, +2·83, 8 and +2·3.
Faridpur . . .	2, 8, 12 and 16.	*Insert* —·006, +4·3, +1·5 and —1.	
Krishnagar . . .	2, 8, 12 and 16.	*Insert* —·014, +3·6, —0·1 and —5.	
Bankura . . .	18 and 19.	3·47 and +0·56.	3·54 and +0·63.
Malda	2, 8, 12 and 16.	*Insert* —·002, +2·0, +0·4 and —4.	
Jalpaiguri . . .	10.	*Insert* 1.	
Balasore . . .	3.	N 30 W.	N 39 W.
Chaibasa . . .	8 and 12.	+1·3 and +0·2.	+1·6 and +0·5.
Ranchi . . .	18 and 19.	2·41 and —0·70.	2·38 and —0·46.
Hazaribagh . . .	1.	27·848(*a*).	27·845(*a*).
Hazaribagh . . .	2, 8, 12 and 16.	*Insert* —·001, +1·4, —1·3 and —1.	
Darbhanga . . .	4, 6, 15, 16 and 17.	2·8, 74·7, 82, —1 and 2·8.	2·0, 74·6, 80, —3 and 2·7.
Sabour . . .	19 and 21.	+0·25 and +0·9.	+0·48 and +0·4.
Haka	18.	4·05.	4·08.
Kanpetlet . . .	7.	68·0.	68·6.
Mainpuri . . .	11.	64·1(*a*).	64·1.
Aligarh . . .	1 and 4.	29·225 and 36.	29·229 and 26.
Ambala . . .	17.	1·5.	1·4.
Lahore . . .	8, 12 and 16.	—0·3, +0·3 and —6.	—0·4, +1·9 and +4.
Sialkot . . .	1, 2, 4, 6, 7, 8, 11, 12, 15 and 16.	29·015(*a*), —·005, 1·7(*a*), 61·1(*a*), 93·0(*a*), +1·1, 61·2(*a*), —0·9, 51 and —11.	29·017, —·003, 1·8, 61·3, 92·9, +1·0, 61·4, —0·7, 53 and —9.
Khushab . . .	1 and 2.	29·226 and —·020.	29·227 and —·019.
Montgomery. . .	1, 2, 4, 11 and 12.	29·269, —·020, 2·3, 62·5 and —0·9.	29·268, —·021, 2·1, 62·3 and —1·1.
Dras	7, 8, 11 and 12.	52·3(*a*), —4·1, 30·2(*a*) and +2·8.	52·2, —4·2, 29·9 and +2·5.
Las Bela . . .	4.	2·8.	2·2.
Jacobabad . . .	4.	1·6(*a*).	1·2.
Sukkur . . .	1, 11 and 14.	29·630, 67·1 and 30.	29·627, 66·7 and 30, 31.
Chhor	4.	3·4.	2·8.
Karachi . . .	4.	6·8.	6·5.

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Reference.	Figure Column.	For	Read
Bikaner . . .	4.	4·2.	4·5.
Jodhpur . . .	4.	3·3.	2·7.
Barmer . . .	4.	3·4.	3·1.
Jhalrapatan . .	1.	28·817.	28·816.
Bhuj	18, 19, 20, 21 and 23.	0·16, —0·28, 1, +0·6 and 29.	0·32, —0·12, 2, +1·6, 22 and 29.
Umaria . . .	1.	29·361.	28·361.
Hoshangabad . .	1 and 2.	28·879 and —·008.	28·881 and —·006.
Seoni	7, 11 and 12.	87·5(*a*), 66·4(*a*) and +2·2.	87·5, 66·5 and +2·3.
Nagpur . . .	4.	2·1(*b*).	2·0.
Raipur . . .	1 and 2.	28·866 and —·015.	28·865 and —·016.
Kanker . . .	7, 10 and 11.	88·2, 4 days and 67·2(*a*).	88·1, "5, 6, 7" and 67·3.
Jagdalpur . . .	6.	70·7.	70·9.
Marmagao . . .	17.	7·3.	7·2.
Karwar . . .	18, 19, 20 and 21.	7·85, +2·22, 10 and +2·9.	8·00, +2·37, 11 and +3·9.
Poona	17.	6·9.	6·8.
Sholapur . . .	1 and 2.	28·274 and —·020.	28·280 and —·014.
Bijapur . . .	4, 18 and 19.	2·6(*b*), 7·20 and +4·13.	2·5, 7·24 and +4·17.
Belgaum . . .	18 and 19.	16·81 and +12·14.	15·81 and +11·14.
Aurangabad . .	5, 6 and 17.	77·1, 69·3 and 7·6.	76·9, 69·1 and 7·8.
Nizamabad	13 and 14.	75 and 4.	64, 12 and 24.
Hyderabad (Dn.) . .	7 and 8.	88·9 and +0·5.	89·4 and +1·0.
Bangalore . . .	11 and 12.	63·7 and —1·5.	67·0 and +1·8.
Mysore . . .	11 and 12.	65·0 and —1·8.	68·2 and +1·4.
Palamcottah . .	18, 19, 20 and 21.	4·66, —2·16, 4 and —5·0.	6·72, —0·10, 5 and —4·0.
Salem	4.	2·2.	2·1(*l*).
Page 80 . . .		*Insert* the footnote "(*l*) mean of 19 days."	
Cuddapah . . .	17.	6·2.	6·4.
Anantapur . . .	18, 19, 20 and 21.	3·46, —0·25, 6 and +0·7.	4·07, +0·36, 7 and +1·7.
Mukteshwar . .	11 and 12.	51·5 and +1·9.	51·7 and +2·1.
Mussooree . . .	6.	47·3.	47·5.
Dharampur . . .	18, 19, 22 and 23.	0·11, —1·39, 0·06 and 16.	0·05, —1·45, 0·03 and 24.
Coonoor . . .	1.	22·426.	23·426.

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Reference.	Figure Column.	For	Read
Victoria Point . .	2.	+·003.	+·013.
Mergui. . . .	13 and 14.	71 and 24.	65 and 22.
Tavoy . . .	20 and 21.	6 and +5·3.	7 and +3·1.
Rangoon . . .	19 and 21.	+0·31 and +1·4.	—2·11 and —1·3.
Toungoo . . .	4.	2·2.	2·1.
Dibrugarh . . .	11.	65·2.	62·5.
Srimangal . . .	18 and 19.	3·36 and +2·45.	3·38 and +2·47.
Comilla . . .	2, 8, 12 and 16.	*Insert* —·039, —1·2, +4·2 and +1.	
Faridpur . . .	2, 8, 12 and 16.	*Insert* —·026, +2·2, +3·6 and +1.	
Krishnagar . . .	2, 8, 12 and 16.	*Insert* —·040, —0·7, +1·2 and 0.	
Malda	2, 8, 12 and 16.	*Insert* —·025, —0·2, +2·6 and +3.	
Chandbali . . .	1.	29·903.	29·902.
Chaibasa . . .	8, 12 and 16.	—1·6, +1·4 and +1.	—1·2, +1·8 and +2.
Hazaribagh . . .	1.	27·914.	27·911.
Hazaribagh . . .	2, 8, 12 and 16.	*Insert* —·032, —2·3, —1·3 and +18.	
Daltonganj . . .	18 and 19.	0·82 and +0·45.	0·91 and +0·54.
Purnea . . .	3 and 16.	N 18 W and +2.	N 14 W and —2.
Darbhanga . . .	1, 2, 4, 5, 6, 15, 16 and 17.	29·789, —·032, 2·1, 69·3, 65·8, 82, 0 and 2·6.	29·790, —·031, 1·9, 69·5, 65·7, 81, —1 and 2·8.
Motihari . . .	11 and 12.	56·2(*h*) and 0.	56·1(*h*) and —0·1.
Sabour . . .	19 and 21.	+2·48 and +3·5.	+2·49 and 3·6.
Haka	1.	24·139.	24·140.
Kalimpong . . .	1.	25·048(*b*).	26·048(*b*).
Aligarh . . .	4.	4·2.	3·0(*d*).
Hissar . . .	4.	2·4.	2·4(*b*).
Ambala . . .	11 and 12.	47·7 and —2·2.	47·9 and —2·0.
Lahore . . .	8, 12 and 16.	+0·6, —2·3 and —2.	+0·4, —0·7 and +11.
Rawalpindi . . .	1; 2 and 17.	28·273, —·032 and 1·0.	28·274, —·031 and 1·2.
Khushab . . .	1, 2, 3, 11 and 12.	29·354, —·035, N 59(*b*) E, 47·2(*b*) and —3·0.	29·352, —·037, N 57 E, 46·6 and —3·6.
Montgomery . .	1 and 2.	29·405 and —·029.	29·406 and —·028.
Bahawalpur . .	1, 5 and 15.	29·600, 60·2 and 47.	29·601, 60·1 and 49.
Sonamarg . . .	18, 19, 20, 21, 22 and 23.	1·42, 0, 4, +1·6, 0·77 and 13.	0·65, —0·77, 3, +0·6, 0·25 and 7; *omit* (*b*) against the station.

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Reference.	Figure Column.	For	Read
Peshawar . . .	1 and 2.	28·811 and —·036.	28·813 and —·034.
Miranshah . . .	3 and 5.	N 7 W and 58·1.	N 10 W and 58·0.
Las Bela . . .	4 and 6.	2·5 and 57·4.	1·7 and 57·8.
Sukkur . . .	1 and 11.	29·778 and 54·6.	29·782 and 54·3.
Chhor	4 and 6.	2·9 and 53·1.	2·4 and 52·8.
Hyderabad . . .	1, 2 and 4.	29·899, +·003 and 3·3.	29·906, +·010 and 2·6.
Manora . . .	4.	5·2.	4·9.
Badin	1 and 4.	29·931 and 1·2.	29·928 and 0·9.
Jodhpur . . .	4.	2·9(*m*).	2·6(*n*).
Kotah . . .	3.	W.	S 63 W.
Bhuj	5.	70·9.	70·8.
Jhalrapatan . .	3.	N.	N 33 E.
Dwarka . . .	1 and 2.	29·916 and —·024.	29·917 and —·023.
Veraval . . .	11 and 12.	67·2 and —0·6.	67·5 and —0·3.
Surat	3.	N 72 E.	N 71 E.
Bhavnagar . . .	1, 2 and 17.	29·883, —·031 and 1·6.	29·894, —·020 and 1·7.
Seoni	3.	N 40 E.	N 36 E.
Pendra . . .	1 and 2.	27·889 and —·037.	27·894 and —·032.
Jagdalpur . . .	4.	5·1.	3·1.
Malegaon . . .	11 and 12.	57·0(*b*) and —0·7.	56·7 and —1·0.
Ahmadnagar . .	1 and 2.	27·771 and —·034.	27·768 and —·037.
Poona	16.	+14.	+5.
Sholapar . . .	1, 2 and 4.	28·332, —·034 and 33.	28·337, —·029 and 3·5.
Gadag . . .		*Omit* the figures in column 4.	
Nizamabad . . .	11 and 12.	64·4 and +4·0.	64·1 and +3·7.
Hyderabad (Dn.) . .	7 and 8.	84·4 and —0·1.	84·9 and +0·4.
Mysore . . .	18, 19, 22 and 23.	3·57, +1·02, 0·98 and 7.	4·00, +1·45, 1·03 and 25.
Page 87 . . .		*Omit* the footnote "(*l*) mean of 19 days."	
Mahableshwar . .	18, 20, 22 and 23.	0·19, 1, 0·12 and 7.	0·68, 2, 0·49 and 18.
Madura . . .	4, 7, 8, 11, 12, 13, 14, 18 and 19.	3·1, 87·6, +0·2, 73·8, +1·1, 70, "20, 26, 29", 9·13 and +4·18.	3·3, 87·8, +0·4, 73·7, +1·0, 68·25, 9·12 and +4·17.
Salem	17.	6·3.	6·4.
Masulipatam . .	18 and 19.	4·82 and —0·85.	5·42 and —0·25.

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Reference.	Figure Column.	For	Read
Vizagapatam . .	17.	5·4.	5·5.
Calingapatam . .	18 and 19.	11·04 and +7·14.	11·06 and +7·16.
Mukteswar . . .	1, 5, 11 and 12.	22·881(*b*), 52·6, 47·9 and +5·3.	22·881, 52·5, 47·8 and +5·2.
Murree . . .	4, 11, 12, 13 and 14.	3·1, 44·0(*b*), —1·6, 40 and 27.	3·4, 43·7, —1·9, 34 and 14.
Parachinar . . .	1 and 2.	24·546 and +·035.	24·549 and +·038.
Kalimpong . . .	1.	25·048(*b*).	26·048(*b*).

DECEMBER 1932.

Reference.	Figure Column.	For	Read
Victoria Point . .	2 and 8.	+·021 and +2·2.	+·031 and —2·2.
Comilla . . .	1.	30·023.	29·970.
Comilla . . .	2, 8, 12 and 16.	*Insert* —·015, 0, +2·4 and 0.	
Faridpur . . .	2, 8, 12 and 16.	*Insert* 0, +3·8, +2·5 and +6.	
Krishnagar . . .	2, 8, 12 and 16.	*Insert* —·018, +2·5, +0·8 and +3.	
Malda	2, 8, 12 and 16.	*Insert* —·007, +1·8, +2·7 and —2.	
Jalpaiguri . . .	8.	+2·	+2·0.
Balasore . . .	7.	79·7.	79·7(*l*).
Chaibasa . . .	16.	—6.	—8.
Hazaribagh . . .	1.	27·976.	27·973.
Hazaribagh . . .	2, 8, 12 and 16.	*Insert* —·006, +1·0, —3·3 and +8.	
Aligarh . . .	1, 4 and 5.	29·408, 4·1 and 52·3.	29·404, 3·2 and 52·8.
Dehra Dun . . .	1.	29·726.	27·726.
Lahore . . .	8, 12 and 16.	—1·7, —0·9 and +2.	—2·3, +0·4 and +3.
Rawalpindi . . .	1 and 2.	28·317(*a*) and —·029.	28·319 and —·027.
Khushab . . .	1 and 2.	29·433 and —·020.	29·432 and —·021.
Multan . . .	4, 18, 19 and 23.	1·4(*b*), 0·01, —0·21 and 26.	1·4, 0·02, —0·20 and 24, 26.
Peshawar . . .	3.	S 3 W.	S.
Dera Ismail Khan .	11 and 12.	39·0(*a*) and —1·6.	39·1 and —1·5.
Quetta. . . .	1, 2, 3, 5, 7, 8, 10, 11, 12 and 17.	24·778, —·004, S 19 W, 29·2, 51·6(*b*), —3·3, 17, 24·7, —6·3 and 4·5.	24·780, —·002, S 14 W, 29·1, 51·9(*a*), —3·0, "1, 16, 17", 24·6, —6·4 and 4·4; *Omit* (*a*) against the Station.
Las Bela . . .	3 and 4.	N 19 W and 2·5.	N 21 W and 1·9.
Jacobabad . . .	4, 6, 15 and 16.	1·6, 45·4, 43 and —21.	1·2, 45·8, 47 and —17.
Sukkur . . .	1 and 3.	29·842 and N 80 E.	29·807 and N 81 E.
Chhor	1.	30·028.	30·034.
Hyderabad (Sind) .	4.	4·8.	4·5.
Karachi . . .	4.	7·3.	7·0.
Badin	1, 3, 4 and 11.	30·007, N 18 E, 3·3 and 51·1.	30·003, N 15 E, 2·4 and 50·5.
Kotah	5, 6, 7, 8, 11, 12, 14, 15 and 16.	59·1, 50·3, 81·0, +1·9, 51·4(*a*),—1·5, "6, 31", 48 and —8.	59·4, 50·5, 81·1, +2·0, 51·8, —1·1 "31", 49 and —7.
Jhalrapatan . .	1.	28·968.	28·967.
Dwarka . . .	5, 15 and 16.	70·3, 57 and —9.	70·5, 55 and —11.
Bhavnagar . . .	11, 12 and 17.	57·5, +1·6 and 1·7.	57·7, +1·8 and 1·9.

DECEMBER 1932—*concld.*

Reference.	Figure Column.	For	Read
Guna	1.	29·422.	28·422.
Sutna	3.	S 60 W.	S 49 W.
Umaria . . .	6.	49·7.	49·2.
Hoshangabad . .	11 and 12.	52·7(*a*) and +3·0.	52·6(*a*) and +2·9.
Jubbulpore . . .	4.	1·3(*a*).	1·3.
Pendra . . .	1, 2, 11 and 12.	27·949, —·011, 50·5 and +1·8.	27·953, —·007, 49·8 and +1·1.
Kanker . . .	17.	1·4.	1·5.
Ratnagiri . . .	3, 4, 7, 8, 11 and 12.	N 76 E, 4·4, 88·9, —0·3, 69·4 and +1·9.	N 77 E, 4·3, 88·8, —0·4, 69·3 and +1·8; *Omit* (*a*) against the Station.
Malegaon . . .	11 and 12.	51·7(*a*) and —0·3.	51·6 and —0·4.
Poona	16.	+17.	+2.
Sholapur . . .	1, 2, 3, 4, 6, 7, 8, 11 and 12.	28·415, +·007, S 65 E, 3·8, 58·4, 85·3(*b*), +1·2, 56·3(*a*) and —2·0.	28·420, +·012, S·64 E, 3·4, 58·3, 85·2, +1·1, 55·8 and —2·5.
Aurangabad . .	11 and 12.	55·7(*c*) and +0·4.	55·6 and +0·3.
Nizamabad . . .	11 and 12.	54·5 and +0·4.	54·7 and +0·6.
Gulbarga . . .	11, 12 and 17.	57·1(*a*), —1·4 and 0·6.	57·0, —1·5 and 0·7.
Raichur . . .	1, 2 and 3.	28·675, +·014 and S 70 E.	28·678, +·017 and S 74 E.
Hyderabad (Dn.) . .	4, 7 and 8.	2·4, 83·4 and +1·0.	2·3, 83·9 and +1·5
Cochin . . .	6, 15 and 16.	71·8, 70 and —4.	72·1, 72 and —2.
Tinnevelly . . .	18 and 19.	3·72 and —0·28.	4·22 and +0·22.
Pamban . . .	1 and 2.	29·908 and +·019.	29·909 and +·020.
Madura . . .	3.	N 13 E.	N 10 E.
Trichinopoly . .	11 and 12.	70·3 and +1·0.	70·1 and +0·8.
Madras . . .	18 and 19.	3·07 and —2·74.	3·16 and —2·65.
Vizagapatam . .	11 and 12.	66·1 and —2·0.	66·5 and —1·6.
Calingapatam . .	11 and 12.	63·8(*b*) and +1·0.	63·5 and +0·7.
Mukteswar . . .	1, 2, 3, 5, 6, 7, 8, 11, 12, 15 and 16.	22·848, —·009, S 85 W, 43·7, 35·0, 52·3, —1·7, 40·3, +2·3, 41 and 0.	22·842, —·005, S 86 W, 43·8, 34·9, 52·4, —1·6, 40·5, +2·5, 38 and —3; *Omit* (*a*) against the Station.
Murree . . .	4.	3·3.	6·5.

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NO—WR 33 IN.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1933

INTRODUCTION

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UNDER THE DIRECTION OF

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INDIA WEATHER REVIEW, 1933

INTRODUCTION.

THE India Weather Review for this year is composed of the twelve Monthly Weather Reports and the Annual Summary.

Up to 1932 the monthly means published in the Monthly Weather Reports were only for 8 hrs. L. M. T. and were based upon the telegraphed figures; the Monthly Weather Report being published promptly at the end of each month. The necessity of an afternoon weather chart for the preparation of forecasts for aviators led to most of the observatories in Persia, northern and central India, and Burma being raised by the end of 1930 to class II, recording observations both in the morning and afternoon. Arrangements for the tabulation and scrutiny of the afternoon observations were completed in 1932. From the issue for January 1933 further changes were therefore made in the Monthly Weather Report; it was expanded to contain averages of the afternoon observations also; the monthly means were based upon the scrutinised data contained in the Monthly Meteorological Registers received by post and the publication of the Monthly Weather Report was consequently delayed; data from most of the non-telegraphic observatories were also included in the Monthly Weather Report.

From 1933 each Monthly Weather Report gives a short account of the weather of the month and has the following five tables:—Table I containing the divisional and subdivisional means, Table II the monthly means of observations at 8 hrs. local time and 17 hrs. I. S. T. at Indian stations, Table III observations recorded at stations west of the Indus at 4 and 14 hrs. G. M. T., Table IV the data of fourth class stations and Table V the rainfall data of fifth class stations.

Beginning with the issue for 1933, the Annual Summary is published in five parts, instead of seven, as detailed below—

I. Introduction.—Title page; table of contents; introduction; sheets of errata to Monthly Weather Reports and Annual Summary.

II. Part A.—Summary of weather and rainfall and tables of meteorological data. This will give a a general description of the weather of the year, and contain annual tables corresponding to the monthly tables in the Monthly Weather Reports, monthly and annual tables for a few stations, tables of observations at 10 hrs. L. M. T. and special tables of rainfall, nocturnal radiation temperature, sunshine data, and hourly wind data.

Three plates showing the monthly and seasonal distribution of rainfall and monthly departures of pressure are given at the end.

III. Part B.—Snowfall. This gives a summary of the snowfall reports received from the mountain regions in the north of India.

IV. Part C.—Storms and depressions. This describes all storms and depressions and contains articles on western disturbances and local storms, and storm track charts.

V. Part D.—Seismic Records. This contains the records obtained with seismographs maintained by the department at Agra, Bombay, Calcutta and Kodaikanal. The list of publications of the India Meteorological Department will be found at the end of this part.

Notes on conditions of exposure of instruments, on methods of reduction and on form of presentation of data.

The following notes concerning the methods of observation in India and of reduction and grouping of results will probably be of some help to users of this volume.

Territorial divisions.

The system of territorial divisions, which has remained unchanged since 1st April 1912, is as follows:—

Chief political divisions.	Sub-divisions.
	Bay Islands.
Burma	Lower Burma.
	Upper Burma.
Assam	Assam.
Bengal	Bengal.
Bihar and Orissa	Orissa.
	Chota-Nagpur.
	Bihar.
United Provinces	United Provinces, East.
	United Provinces, West.
Punjab	Punjab, East and North.
	Punjab, Southwest.
	Kashmir.
North-West Frontier Province	North-West Frontier Province.
	Baluchistan.
Sind	Sind.
Rajputana	Rajputana, West.
	Rajputana, East.
Bombay	Gujarat.
	Konkan.
	Bombay Deccan.
Central India	Central India, West.
	Central India, East.
Central Provinces	Berar.
	Central Provinces, West.
	Central Provinces, East.
Hyderabad	Hyderabad, North.
	Hyderabad, South.
Mysore	Mysore.
Madras	Malabar.
	Madras, Southeast.
	Madras, Deccan.
	Madras Coast, North.

Barometric pressure.

Mercurial barometers on Fortin's principle with tubes of 0·4″ bore throughout have always been in use at most of the observing stations in India; but of late years the department has introduced an increasing number of Kew pattern barometers, made according to specifications issued by the Department.

Aneroid barometers were in use at Ispahan, Tehran and Kashgar.

At Calcutta and Bombay the standards are Newman instruments, with adjustable scales; at Poona, the standard is an instrument on Fortin's principle. All these standards have tubes of large bore.

All instruments issued up to 1931 were compared at Calcutta before issue and their corrections determined to the Calcutta standard, which was, until 1910, about ·011″ higher than the Kew standard. The present difference is probably less than this, but the determination of the exact amount is a matter of difficulty (*see* the Departmental Memoirs, Vol. XXI, pp. 127-8, 1916).

Instruments issued since the year 1932 have been compared with the Fortin Standard at Poona, and the corrections determined with reference to the Calcutta standard mentioned above.

The barometers are in all cases situated in masonry buildings to protect them as much as possible from rapid changes of temperature.

The heights above mean sea level of the barometers are given in all Tables. Heights of most stations have been obtained accurately by actual measurement from datum levels determined by the Great Trigonometrical Survey of India; the heights of only a few stations, mostly in Kashmir, have been determined barometrically.

All readings are for station level reduced to 32° F and to standard gravity.

Temperature.

The older method of exposing thermometers in India lay in the use of large open-sided sheds to protect the instruments from extraneous radiation. A detailed description of the shed and of the methods of exposure will be found in the Instructions to Observers of the India Meteorological Department (1902 edition) and in the Annual Report on the Meteorology of India for the year 1887, page 37. The cost of the sheds and of their upkeep rose greatly after the war, and it became necessary to consider other devices for efficiently shading thermometers. Experiments with other types of shed and with various types of louvred screens were carried out at Agra and described in Vol. XXIV, Part III, of the Memoirs of this department.

As a result it was decided to replace all sheds in India by Stevenson screens, as opportunity offered. The pattern of screen adopted for use in India has free inside measurements of about 22″ length, 12″ depth and 16″ height, and is somewhat larger than the pattern approved in 1884 by the Thermometer Screen Committee of the English Meteorological Society and larger too than the "small model" in common use in Germany. It is made of teak wood painted white

and has four double louvred sides and a perforated top and bottom. A sloping extra cover of wood protects the top from sun and rain. The door on the north side has 14 louvres and the remaining sides have 16 louvres each.

A beginning was made with this policy in the year 1923, and by the end of the year 1933, thermometer sheds remained to be replaced by Stevenson screens only at 12 observatories, mostly in Indian States.

Thermometers in use which were issued up to the end of 1931 were verified by comparison with Kew Standard thermometers at Calcutta. Instruments issued from 1932 were compared at Poona with standards provided with certificates of correction from the National Physical Laboratory, Teddington, England. All the thermometers at the observing stations are restandardised from time to time; all readings are corrected to their true values.

Terrestrial radiation.

New terrestrial radiation thermometers were brought into use at most of the departmental first-class observatories and the method of exposure was also altered in 1932. Formerly these thermometers were laid on a thick pad of woollen blanket; but since 1932 they are placed on two wooden forks, on a close cropped grass plot so that the bulb of the thermometer is 1½" above ground. The nocturnal radiation temperatures recorded by these thermometers at 13 stations appear in table VIII, in which the depression of these temperatures below the minimum temperature at 4 feet above ground is also given. The normals of depression used for Calcutta, Bombay and Lahore are based on more than fifty years' data and for Srinagar on about 30 years' data.

Hours of bright sunshine.

Sunshine recorders were in use at 13 stations. The instruments except at Abadan, Lahore and Madras are of the standard Campbell-Stokes pattern. At Lahore and Madras, Whipple-Casella sunshine recorders were in use, but at the latter station, the instrument was replaced by a Campbell-Stokes recorder on 12th November 1933. The data from Abadan are from the records of a twin-cylinder Jordan sunshine recorder and are therefore not strictly comparable with those for the other stations.

Surface winds.

All anemometers issued up to the end of 1931 were compared before issue with the standard Beckley anemograph at the Alipore Observatory. Since January 1932 anemometers are issued from Poona after comparison with the standard cup anemometer there. This standard is provided with a certificate of corrections from wind channel tests made by the National Physical Laboratory, Teddington, England, and has also been compared with the Beckley anemograph at Alipore. However, as only instruments with small corrections are issued and as it is impracticable to prevent always slight alterations in exposure resulting from growth of trees or erection of buildings, it has been considered unnecessary to apply any correction to the observed values.

Up to 1911 the factor representing the ratio of air movement to travel of Beckley cups had in India, as in other countries, been taken at 3·0; but from that year the generally accepted factor of 2·2 has been used (*see* note on page 8, Monthly Weather Review, January 1912). Recently the department has begun to introduce totalising anemometers remodelled at the departmental workshop at Poona from old cup anemometers of the dial pattern. The wind data published consist of the mean hourly air movement as registered by Robinson anemometers during the 24 hrs. ending at 8 hrs. and the frequency of the wind direction from 8 compass points at both the hours of observation. The resultant direction wherever given is calculated by the use of Lambert's formula in which equal weight is given to each wind observation irrespective of velocity.

The hourly velocities at three stations equipped with Beckley's or Dines P. T. anemographs are given in Table IX.

Humidity and cloud.

The hygrometric data are calculated by means of the departmental "Tables for the reduction of meteorological observations in India". The proportion of cloud is estimated in tenths of the sky expanse, an overcast sky being denoted by 10 and a cloudless sky by 0.

Rainfall.

Symons's raingauges are now used at all raingauge stations with the exception of those in Mysore and Travancore. The time of measuring rainfall is 8 hrs., local time, throughout India, and the amounts then registered give the rainfall of the previous 24 hrs.

The rainfall data for each province are generally tabulated in the office of the Provincial officers controlling registration of rainfall in the province, and published in the provincial gazettes. The data of Baluchistan, Kashmir, Rajputana, the North-West Frontier Province, Central India, Eastern States and States in the Bombay Presidency are, however, published by the Poona Meteorological Office. These provincial tables are collected together and are issued annually in a separate volume entitled "Rainfall of India". The forty-third volume, that of 1933, contains the whole rainfall data of about 3,100 stations which are utilised in preparing Tables XI to XVI on pages A 42 to A 51. In these provincial tables and in the rainfall observations at the meteorological observatories published in this volume a "rainy day" is taken to be one on which 0·10 inch or more of rain is recorded.

The departures from normals given in these tables are based upon the normal values of rainfall published in the Memoirs of the Indian Meteorological Department, Vol. XXIII, Part VII.

Tables.

Tables I to V in the Annual Summary, Part A, corresponding to Tables I to V in the Monthly Weather Report, contain the annual means of stations whose monthly data have appeared in the Monthly Weather Reports.

Table II-A, is similar to table II, and contains the monthly and annual means of those stations which could not be included in the Monthly Weather Report.

Table VI gives the monthly and annual means of observations recorded at 10 hrs. L. M. T. at first class stations. This also contains the daily means of pressure, temperature, humidity and vapour tension which have hitherto appeared in table D-1. The daily means of pressure, temperature, humidity and vapour tension data given in this table have been obtained from the means of 10 hrs. L. M. T. and 17

hrs. I. S. T. by the application of appropriate corrections, recently derived from the available hourly observations, to reduce them to true mean of the day. The daily means of Kodaikanal are those obtained from the hourly records of self-recording instruments corrected by eye readings. The 10 hrs. L. M. T. data of Bombay, with the exception of cloud, are taken from autographic charts.

The departures from normal are based on normal values derived from all available data down to 1899 as published in the Indian Meteorological Memoirs, Vol. XVII.

Table VII gives the monthly values of observations recorded at 10 hrs. and 16 hrs. local time at Katmandu and Seychelles.

The daily means of pressure etc. given in this table have also been reduced to true mean of day by applying appropriate diurnal corrections, given in the Indian Meteorological Memoirs, Vol. XVII, to the means of 10 and 16 hrs. The departures from normals are based on normals up to 1899 as in the case of table VI.

Table VIII gives the abstract of hours of bright sunshine and nocturnal radiation temperature at 15 stations.

Table IX gives the mean hourly wind velocity at three stations equipped with anemographs.

Table X gives the number of days on which the Nilgiris were visible from Kodaikanal.

Table XI to XV give the divisional and sub-divisional means of rainfall, and Table XVI gives heavy falls of 10″ and above in 24 hours recorded at about 3,100 rainfall recording stations.

The departures from normal given in tables I to V and XI to XV are based mostly upon the normal values determined from all the available data down to 1920. In some cases data up to 1930 have been used, while, at certain stations with short period data, normals have been derived by comparison with a neighbouring station having long period normals.

The data of stations under the administrative control of Calcutta, Karachi and Poona are scrutinised and supplied by the respective centres.

INDIA WEATHER REVIEW, 1933.

ERRATA.

ERRATA TO MONTHLY WEATHER REPORT, JANUARY 1933.

Reference.	Column.	For	Read
Pages 4-5.			
Mandalay . . .	44 and 52.	3 and 25.	4 and 24.
Sibsagar . . .	2.	333.	317.
Silchar	2.	104.	95.
Chittagong . . .	20.	·618.	·441.
Narayanganj . . .	20.	·640.	·390.
Mymensingh . . .	2.	63	62
Faridpur . . .	2, 4, 8 and 9.	46, +·023, 81 and 5.	27, +·003, 83 and 22.
Khulna . . .	19 and 25.	....	*Insert*—042 and +0·2.
Jessore . . .	4.	+·022.	+·048.
Satkhira . . .	19 and 25.	....	*Insert*—·055 and 0.
Calcutta . . .	28.	—0·44	+0·44.
Midnapore . . .	18 and 19.	·349 and —·040.	·364 and —·025.
Krishnagar . . .	2.	47.	48.
Asansol . . .	22, 28 and 32.	—13, + 0·71 and + 3·1	—11, + 0·34 and +2·6.
Berhampore . . .	2.	65.	62.
Bogra	2.	66.	63.
Pages 6-7.			
Balasore . . .	2.	64.	65.
Ranchi	20.	·275.	·262.
Daltonganj . . .	20.	·257.	·242.
Purnea . . .	25.	+0·2.	—0·2.
Darbhanga . . .	4 and 28.	+·002 and —0·51.	+·015 and +0·51.
Pusa	8 and 9.	78 and 20, 21, 22.	79 and 4.
Motihari . . .	3, 4 and 5.	29·784, —·018 and 29·696.	29·804, +·002 and 29·716.
Jhansi	4.	—·023.	+·016.
Agra	4, 8 and 9.	—·036, 76 and 12.	+·010, 77 and 31.
Mainpuri . . .	4.	—·037.	+·009.
Bareilly . . .	4.	—·016.	+·026.
Roorkee . . .	4, 24, 25 and 32.	—·037, 3·2, +0·2 and —2·9.	+·003, 3·3, +0·3 and —1·9.
Dehra Dun . . .	4.	—·024.	+·014; *insert*—0·6 in column 34 and *omit* zero from columns 44 to 52.
Delhi	4.	—·013.	+·029.
Hissar	4.	—·013.	+·027.
Ambala . . .	4.	—·024.	+·015.
Ludhiana . . .	4.	—·011.	+ 026.
Lahore	4.	—·005.	+ ·036.
Sialkot	4, 24, 25 and 26.	—·011, 3·3, +0·1 and 2·5.	+·023, 3·6, +0·4 and 2·8.
Rawalpindi . . .	4, 40, 41, 45, 46, 47, 50 and 51.	—·024, 0, 2, 1, 0, 1, 4 and 17.	+·007, 1, 1, 0, 1, 0, 14 and 8.

ERRATA TO MONTHLY WEATHER REPORT, JANUARY 1933—*contd.*

Reference.	Column.	For	Read
Pages 8-9.			
Khushab . . .	4.	—·018.	+·015.
Lyallpur . . .	3, 4, 24 and 25.	29·478, +·003, 3·9 and —0·8.	29·461, +·021, 4·2 and —0·5.
Montgomery . . .	4 and 30.	—·010 and 18.	+·026 and 19.
Multan	4, 27 and 28.	0, 0·17 and —0·25.	+·039, 0·16 and —0·26.
Bahawalpur . .	10.	73·8.	37·8.
Peshawar . . .	4.	—·014.	+·016.
Miranshah . . .	24.	2·4.	2·6.
Dera Ismail Khan . .	4, 33 and 34.	+·011, 1·2 and +0·3.	+·045, 1·0 and +0·1.
Fort Sandeman . .	4.	—·065.	—·028.
Quetta	2 and 4.	5, 407 and —·045.	5, 405 and —·005; *omit* the figures in column 34.
Chaman . . .	4 and 28.	—·025 and +0·06.	+·013 and —0·01.
Kalat	4 and 8.	—·066 and 60.	—·025 and 61.
Dalbhandin . . .	4 and 12.	—·033 and 26.	+·009 and 25; *insert* 4·2 in column 26.
Las Bela . . .	2.	210.	292.
Sukkur . . .	27 and 29.	0 and 0.	0·07 and 0·07.
Bikaner . . .	6, 7, 8 and 14 to 23.	70·7, —1·3, 81, 44·7, 66·2, 36·2, 47·7, ·100, —·116, ·090, 34, —22 and 14.	68·9, —3·1, 79, 46·5, 68·0, 38·0, 49·5, ·117, —·099, ·103, 37, —19 and 15.
Jaipur	4.	—·001.	+·045.
Ajmer	4.	—·018.	+·029.
Kotah	4.	—·021.	+·029.
Jamnagar . . .	2.	535.	53.
Rajkot	2.	434.	432.
Pages 10-11.			
Jubbulpore . . .	2.	1327.	1289.
Nagpur . . .	33 and 34.	3·0 and +0·5.	2·2 and —0·3.
Ahmadnagar . .	10.	53·8.	53·8 (*b*).
Miraj	6.	86·7.	86·7 (*f*).
Aurangabad . . .	10.	57·9.	57·9 (*a*).
Hyderabad (Dn.) . .	24 and 25.	5·0 and +2·5.	5·5 and +3·0.
Insert the footnotes "(*a*) Mean of 30 days" "(*b*) Mean of 29 days" and "(*f*) Mean of 25 days."			
Pages 12-13.			
Shillong . . .	2.	4920.	4921.
Kalimpong . . .	....	....	*Insert* +·006 in column 19.
Muktesar . . .	4 and 25.	—·048 and —0·4.	—·007 and +0·4.
Mussooree . . .	4, 24 and 25.	0, 4·4 and +0·5.	+·039, 4·7 and +0·8.
Simla	4 and 28.	—·039 and —0·83.	—·001 and —1·83.

ERRATA TO MONTHLY WEATHER REPORT, JANUARY 1933—*concld.*

Reference.	Column.	For	Read
Pages 12-13—contd.			
Cherat . . .	4.	—·018.	+·014.
Parachinar . .	2, 4, 27 and 28.	6,005, —·031, 1·67 and —0·45.	5,673, +·007, 1·77 and —0·35.
Drosh	2.	4,500.	4,723.
Mount Abu . . .	4.	—·039.	+·011.
Pages 14-15.			
Pasni	27, 28 and 29.	0·24, —1·72 and 0·17.	0·44, —1·52 and 0·37.
Page 16.			
Lumding . . .	12 and 13.	·367 and —·013.	·347 and —·033.
Brahmanbaria . .	5.	24.	23.
Bidar	23.	S 57 E.	S. 55 E.
Pishin	4 and 8.	—0·27 and —2·0.	+0·15 and —1·1.

e 4

ERRATA TO MONTHLY WEATHER REPORT, FEBRUARY 1933.

Reference.	Column.	For	Read
Pages 20-21.			
Victoria Point . .	4 and 19.	—·027 and —·039.	—·016 and —·061.
Tavoy	32.	+0·6.	+0·2.
Rangoon . . .	20.	·639.	·628.
Diamond Island . .	32.	—0·3.	—0·2.
Gwa	28 and 32.	....	Insert —0·18 and —0·2.
Sandoway . . .	20.	·618.	·643; *insert* 28 in column 2.
Akyab	32.	—0·1.	—0·4.
Sibsagar . . .	2.	333.	317.
Gauhati . . .	25.	+3·4.	+1·4.
Dhubri . . .	25.	+0·6.	+0·8.
Silchar	2.	104.	95.
Noakhali . . .	11 and 22.	+5·4 and +1.	+1·9 and —1.
Mymensingh . . .	2.	63.	62.
Faridpur . . .	2.	46.	27.
Khulna . . .	18.	·569.	·548; *insert* +·041 and +2·3 in columns 19 and 25.
Jessore	25.	—0·2.	+0·2.
Satkhira . . .	5 and 7.	29·928 and —1·1.	29·828 and +0·9; *insert* +·071 and +2·7 in columns 19 and 25.
Saugor Island . .	7.	+0·3.	—0·7.
Sandheads . . .	19, 20, 22, 25 and 28.	+·110, ·696, +9, —0·4 and +1·73.	+·023, ·670, +4, —0·1 and +1·38.
Midnapore . . .	18 and 19.	·562 and +·004.	·541 and +·083.
Burdwan . . .	24 and 25.	4·2 and +1·4.	4·0 and +1·2.
Krishnagar . . .	2, 28 and 32.	47, +0·59 and +2·1.	48, +1·21 and +1·3.
Asansol . . .	28, 31 and 32.	+0·84, 3 and +1·2.	+1·10, 4 and +1·9; *insert* +·045 and +0·8 in columns 19 and 25.
Berhampore . . .	2, 18 and 19.	65, ·502 and +·066.	62, ·522 and +·086.
Bogra	2.	66.	63.
Dinajpur . . .	20.	·477.	·442.
Pages 22-23.			
Balasore . . .	2 and 28.	64 and —0·15.	65 and +0·15.
Chandbali . . .	4, 7 and 11.	....	*Insert* —·034, —1·8 and +2·0.
Angul	28.	+0·56.	+0·65.
Hazaribagh . . .	4.	—·074.	—·022.
Daltonganj . . .	28.	+1·00.	+0·67.
Darbhanga . . .	4.	—·037.	—·024.
Motihari . . .	3, 4 and 5.	29·679, —·067 and 29·590.	29·699, —·047 and 29·610.
Patna	28.	—0·05.	—0·23.
Gaya	28.	+0·46.	+0·23.

ERRATA TO MONTHLY WEATHER REPORT, FEBRUARY 1933—*contd.*

Reference.	Column.	For	Read
Pages 22-23—contd.			
Jhansi	4.	—·098.	—·049.
Agra	4 and 9.	—·090 and 10.	—·044 and 10, 12.
Mainpuri	4.	—·091.	—·045.
Bareilly	4.	—·062.	—·020.
Roorkee	4.	—·071.	—·031.
Dehra Dun	4.	—·056.	—·018.
Delhi	4.	—·073.	—·031.
Hissar	4.	—·069.	—·029.
Ambala	4.	—·070.	—·031.
Ludhiana	4.	—·058.	—·021
Lahore	4.	—·059.	—·024.
Silakot	4.	—·059.	—·025.
Rawalpindi	4, 41, 42, 44, 46, 50 and 51.	—·059, 1, 2, 1, 1, 4 and 13.	—·028, 2, 1, 2, 0, 12 and 5.
Pages 24-25.			
Khushab	4.	—·069.	—·036.
Lyallpur	3 and 4.	29·361 and —·033.	29·344 and —·015.
Montgomery	4, 24 and 25.	—·065, 2·1 and —1·1.	—·029, 2·2 and —1·0.
Multan	4, 27 and 28.	—·064, 0·20 and —0·16.	—·025, 0·21 and —0·15.
Muzaffarabad	39, 40 and 43.	.13, 10 and 0.	7, 4 and 12.
Peshawar	4.	—·068.	—·038.
Dera Ismail Khan	4.	—·052.	—·018.
Fort Sandeman	4.	—·040.	—·003.
Quetta	4.	—·078.	—·038.
Chaman	4.	—·052.	—·014.
Kalat	4 and 8.	—·065 and 59.	—·024 and 60.
Dalbandin	4, 12 and 13.	—·081, 25 and 2, 3.	—·039, 24 and 2.
Las Bela	2 and 5.	210 and 29·672.	292 and 29·572.
Sukkur	2.	198.	221.
Bikaner	6, 7, 8 and 14 to 23.	80·0, +3·7, 85, 55·2, 74·4, 46·8, 55·0, ·210, —·023, ·174, 48, —3 and 20.	78·0, +1·7, 85, 56·9, 76·2, 48·5, 56·7. ·235, +·002, ·205, 50, —1 and 23.
Jaipur	4.	—·061.	—·015.
Ajmer	4.	—·081.	—·034.
Kotah	4.	—·081.	—·031.
Jamnagar	....	....	*Omit* the figures in column 18.
Rajkot	2.	434.	432.

ERRATA TO MONTHLY WEATHER REPORT, FEBRUARY 1933—*concld.*

Reference.	Column.	For	Read
Pages 26-27.			
Jubbulpore . . .	2.	1,327.	1,289.
Nagpur . . .	33 and 34.	4·1 and +1·0.	3·2 and +0·1.
Poona	12 and 13.	58 and 21.	50 and 8,21.
Pages 28 and 29.			
Shillong. . . .	2.	4,920.	4,921.
Darjiling . . .	7, 25, 28 and 32.	—0·2, +0·1, —0·24 and —0·3.	—1·2, —0·3, —0·79 and —1·6.
Kalimpong . . .	2 and 4.	3,933 and +·040.	3,867 and —·021; *insert* +·032 and +2·1 in columns 19 and 25.
Mukteswar . .	4.	—·042.	—·001.
Mussooree . . .	4.	+·003.	+·042.
Simla	4.	—·019.	+·019.
Cherat	4.	—·036.	—·004.
Parachinar . . .	2 and 4.	6,000 and —·012.	5,673 and +·026.
Drosh	2.	4,500.	4,723.
Mount Abu . . .	4.	—·083.	—·033.
Nuwara Eliya . .	....	....	*Omit* the figures in column 32.
Page 30.			
Zahidan . . .	....	....	*Omit* the figures in columns 2, 4 and 5.
Page 32.			
Gnatong . . .	3, 4, 5 and 8.	7·05, +1·85, 3·05 and —3·0.	0·75, —4·45, 0·35 and +3·9.
Lachung . . .	3 to 8.	4·39, +1·54, 0·86, 27,9 and +1·4.	2·42, —0·43, 0·53, 18, 12 and +4·4.

ERRATA TO MONTHLY WEATHER REPORT, MARCH 1933.

Reference.	Column.	For	Read
Pages 36-37.			
Victoria Point . .	2.	147.	157.
Kyaukpyu . . .	42.	1.	2.
Sibsagar . . .	2.	333.	317.
Silchar	2.	104.	95.
Noakhali . . .	11.	+3·2.	+1·0.
Mymensingh . . .	2.	63.	62.
Faridpur . . .	2 and 4.	46 and —·002.	27 and —·022.
Jessore	4.	—·008.	+·008.
Krishnagar . . .	2.	47.	48.
Asansol . . .	28 and 32.	—0·58 and —0·4.	—0·72 and +0·1.
Berhampore . . .	2.	65.	62.
Bogra	2.	66.	63.
	Insert footnote " * from 10-3-33."		
Pages 38-39.			
Balasore . . .	2.	64.	65.
Chandbali . . .	....	....	*Insert* +·002, —3·2, —1·5, and —3 in columns 4, 7, 11 and 22.
Darbhanga . . .	4 and 20.	—·011 and ·350.	+·002 and ·337.
Motihari	5.	29·554.	29·508.
Gaya	9.	31.	20, 31.
Naya Dumka . .	18, 19 and 20.	·368, —·044 and ·283.	·356, —·056 and ·268.
Sabour	9 and 13.	31 and 1.	20, 31 and 1, 2.
Fatehpur . . .	3.	29·433.	29·532.
Rawalpindi . . .	35, 36, 37, 39, 40, 41, 42, 44, 45, 46, 47, 48, 50 and 51.	1, 0, 1, 0, 3, 0, 3, 1, 4, 0, 2, 0, 2 and 13.	0, 1, 0, 1, 2, 2, 2, 4, 1, 1, 1, 1, 8 and 6.
Pages 40-41.			
Lyallpur . . .	3 and 4.	29·292 and +·030.	29·275 and +·013.
Muzaffarabad . .	36, 38, 39, 40 and 43.	2, 2, 13, 12 and 0.	1, 1, 7, 7 and 14.
Miranshah . . .	2.	3,039.	3,040.
Kalat	8.	70.	71.
Dalbandin . . .	12.	37.	36.
Las Bela . . .	2.	210.	292.
Rajkot	2.	434.	432.
Pages 42-43.			
Jubbulpore . . .	2.	1,327.	1,239.
Nagpur . . .	33 and 34.	3·8 and +0·3.	2·9 and —0·6.
Bangalore . . .	9.	24.	25.

ERRATA TO MONTHLY WEATHER REPORT, MARCH 1933—*contd.*

Reference.	Column.	For	Read
Pages 44-45.			
Calicut	3 and 4.	29·861 and +·002.	29·845 and —·014.
Maymyo . . .	13.	7, 8.	7, 8, 10.
Kanpetlet . . .	13.	1.	4 days.
Shillong . . .	2, 9 and 19.	4,920, 22, 31 and —·016.	4,921, 22, 28, 31 and —·034.
Kalimpong . . .	2 and 4.	3,933 and +·072.	3,867 and +·011.
Parachinar . . .	2.	6,000.	5,673.
Drosh	2.	4,500.	4,723.
Coonoor . . .	39.	2.	1.
Nuwara Eliya. . .	3.	23·059.	24·059.
Page 47			
Drigh Road (Karachi) .	....	....	*Insert* 0 in column 31.
Page 48.			
Zahidan . . .	1.	Zahidan	* Zahidan ; *omit* the figures in columns 2, 4 and 5.
Bidar	23.	S 44 W.	S 42 W.
	Insert the footnote " * Records observations at 7 hrs. (L. M. T.) " at the bottom of Table IV.		
Gnatong . . .	3, 4 and 5.	2·10, —4·12 and 1·00.	0·30, —5·92 and 0·10.

ERRATA TO MONTHLY WEATHER REPORT, APRIL 1933.

Reference.	Column.	For	Read
Pages 52-53.			
Port Blair . . .	18 and 19.	·899 and —·018.	·903 and —·014.
Victoria Point . .	2.	147.	157.
Diamond Island . .	9.	6 days.	7 days.
Sandoway . . .	....	....	*Insert* 28 in column 2.
Akyab	18 and 19.	·835 and —·028.	·828 and —·035.
Mandalay . . .	20.	·507.	·500.
Bhamo	27.	1·21.	1·19.
Sibsagar . . .	2.	333.	317.
Tezpur	18, 19, 21 and 22.	·587, —·048, 79 and —5.	·610, —·025, 74 and —10.
Gauhati . . .	23.	54.	40.
Dhubri	13.	15.	9,15.
Silchar	2.	104.	95.
Srimangal . . .	23.	54.	49.
Noakhali . . .	11.	+2·8.	+0·8.
Comilla . . .	2 and 20.	36 and ·828.	37 and ·849.
Narayanganj . . .	20.	·642.	·669.
Mymensingh . . .	2 and 20.	63 and ·662.	62 and ·649.
Faridpur . . .	2, 4 and 9.	46, +·034 and 5.	27, +·014 and 5, 7.
Barisal	27 and 28.	14·96 and +10·18.	4·49 and —0·29.
Saugor Island . .	18 and 19.	·865 and —·054.	·851 and —·068.
Sandheads . . .	20 and 30.	·845 and 14, 23.	·928 and 14, 24.
Midnapore . . .	20.	·514.	·487.
Burdwan . . .	5.	29·556.	29·566.
Krishnagar . . .	2.	47.	48.
Asansol . . .	28 and 32.	+0·45 and +1·7.	+0·62 and +2·2.
Berhampore . . .	2.	65.	62.
Bogra	2.	66.	63.
Dinajpur . . .	30.	16.	15.
Pages 54-55.			
Balasore . . .	2.	64.	65.
Puri	18 and 19.	·904 and —·010.	·942 and +·028.
Angul	20, 25 and 32.	·382, —0·9 and —0·2.	·407, —1·4 and +0·3.
Ranchi	29, 30, 31 and 32.	0·60, 14,4, and +1·6.	0·70, 12,5 and +2·6.
Purnea	4 and 20.	+·033 and ·476.	+·014 and ·452.
Darbhanga . . .	4.	+·021.	+·034.
Pusa	18 and 19.	·513 and —·061.	·500 and —·074.
Motihari . . .	12 and 13.	59 and 2.	57 and 15.

ERRATA TO MONTHLY WEATHER REPORT, APRIL 1933—*contd.*

Reference.	Column.	For	Read
Pages 54-55—contd.			
Patna	5.	29·577.	29·477.
Gaya	5.	29·283.	29·293.
Benares . . .	20.	·321.	·335.
Allahabad . . .	18 and 19.	·368 and —·036.	·361 and —·043.
Agra	8.	107.	106.
Hansi	37, 41 and 43.	3, 3 and 11.	2, 2 and 13.
Patiala	....	....	*Insert* 818 in figure column 2.
Ambala . . .	12.	56.	57.
Rawalpindi . . .	36, 41, 42, 44, 45, 46, 49, 50 and 51.	3, 1, 6, 2, 5, 1, 0, 4 and 12.	2, 4, 4, 4, 3, 0, 1, 10 and 6.
Pages 56-57.			
Lyallpur . . .	3 and 4.	29·202 and +·058.	29·185 and +·041.
Muzaffarabad . .	38, 39, 40 and 43.	2, 14, 12 and 0.	1, 7, 7 and 13.
Miranshah . . .	2.	3,039.	3,040.
Kalat	8.	74.	75.
Dalbandin . . .	12.	48.	47.
Las Bela . . .	2.	210.	292.
Rajkot	2.	434.	432.
Pages 58-59.			
Umaria . . .	3.	28·352.	28·300.
Jubbulpore . . .	2.	1,327.	1,289.
Nagpur . . .	33 and 34.	4·9 and +0·7.	3·8 and —0·4.
Pages 60-61.			
Maymyo . . .	20.	·422.	·438.
Haka	33.	8·7.	8·7 (*h*).
Shillong . . .	2, 18 and 19.	4,920, ·334 and —·039.	4,921, ·323 and —·050.
Cherrapunji . . .	18, 19 and 20.	·441, —·042 and ·466.	·435, —·048 and ·460.
Kalimpong . . .	2 and 4.	3,933 and +·070.	3,867 and +·009.
Parachinar . . .	2.	6,000.	5,673.
Drosh	2.	4,500.	4,723.
Page 62.	*Insert* the footnote " (*h*) mean of 23 days ".		
Page 64.	In Addenda for March 1933 against Sandoway *insert* 28 in column 2.		
Lumding . . .	12 and 13.	·630 and —·013.	·607 and —·036.
Zahidan . . .	....	....	*Omit* the figures in columns 2, 4 and 5.
Bidar	23.	S 56 W.	S 64 W.
Pishin	4 and 8.	—0·10 and —0·7.	+0·04 and —0·2.
Anantapur . . .	4 and 8.	+0·46 and +1·0.	+0·45 and +0·9.

ERRATA TO MONTHLY WEATHER REPORT, MAY 1933.

Reference.	Column.	For	Read
Pages 68-69.			
Victoria Point . .	2.	147.	157.
Sandoway . . .	2.	42.	28.
Sibsagar . . .	2.	333.	317.
Silchar	2 and 28.	104 and —0·90.	95 and +0·90.
Mymensingh . . .	2.	63.	62.
Faridpur . . .	2.	46.	27.
Krishnagar . . .	2.	47.	48.
Asansol . . .	32.	+4·2.	+3·9.
Berhampore . . .	2.	65.	62.
Bogra	2.	66.	63.
Pages 70-71.			
Balasore . . .	2.	64.	65.
Chandbali . . .	....	....	*Insert* +·045, —0·9, —0·5 and 0 in figure columns 4, 7, 11 and 22.
Chaibasa . . .	9.	1, 2.	1, 23.
Darbhanga . . .	4.	+·046.	+·059.
Agra	9.	21, 30, 31.	30, 31.
Hansi	40 and 43.	3 and 7.	2 and 8.
Rawalpindi . . .	41, 42, 47 and 48.	0, 2, 1 and 3.	1, 1, 2 and 2.
Pages 72-73.			
Lyallpur . . .	3 and 4.	29·073 and +·067.	29·056 and +·050.
Muzaffarabad . .	39, 40 and 43.	15, 14 and 0.	10, 9 and 10.
Miranshah . . .	2.	3,039.	3,040.
Quetta	2.	5,407.	5,405.
Kalat	8.	91.	92.
Dalbandin . . .	12 and 13.	59 and 1, 8.	58 and 1.
Nokkundi . . .	....	....	*Insert* 2,282 in column 2 and *omit* the figures in columns 3 and 5.
Las Bela . . .	2.	210.	292.
Rajkot	2.	434.	432.
Pages 74-75.			
Umaria . . .	3 and 5.	28·541 and 28·420.	28·217 and 28·096.
Nagpur . . .	33 and 34.	5·8 and +0·3.	4·4 and —1·1.
Shillong . . .	2.	4,920.	4,921.
Kalimpong . . .	2 and 4.	3,933 and +·084.	3,867 and +·023.
Parachinar . . .	2.	6,005.	5,673.
Drosh	2.	4,500.	4,723.
Page 80.			
Zahidan . . .	....	....	*Omit* the figures in columns 2, 4 and 5.

ERRATA TO MONTHLY WEATHER REPORT, JUNE 1933.

Reference.	Column.	For	Read
Pages 84-85.			
Port Blair . . .	20.	·872.	·878.
Victoria Point . .	2.	147.	157.
Sandoway . . .	2.	42.	28.
Dibrugarh . . .	11.	—0·6.	+0·6.
Sibsagar . . .	2.	333.	317.
Gauhati . . .	25 and 34.	—0·8 and —0·6.	+0·8 and +0·6.
Silchar	2, 8, 9 and 32.	104, 93 ; 15, 18 and +3·8.	95, 94, 23 and —3·8.
Noakhali . . .	11.	+0·9.	—0·3.
Comilla . . .	30.	23.	24.
Mymensingh . . .	2.	63.	62.
Faridpur . . .	2.	46.	27.
Midnapore . . .	8 and 9.	105 and 3.	106 and 8.
Krishnagar . . .	2.	47.	48.
Berhampore . . .	2.	65.	62.
Bogra	2.	66.	63.
Pages 86-87.			
Balasore . . .	2.	64.	65.
Hazaribagh . . .	22.	—6.	+6.
Darbhanga . . .	4.	—039.	—026.
Gaya	12 and 13.	74 and 17.	75 and 26.
Fatehpur . . .	31.	8.	9.
Agra	8.	113.	112.
Hissar	9.	1, 9.	1, 19.
Ambala . . .	12.	72.	73.
Pages 88-89.			
Khushab . . .	12.	72.	71.
Lyallpur . . .	3 and 4.	28·819 and —·031.	28·802 and —·048.
Muzaffarabad . .	35, 36, 39, 40 and 43.	1, 1, 14, 13 and 0.	0, 0, 7, 6 and 16.
Quetta	2.	5, 407.	5,405.
Kalat	8.	98.	99.
Dalbandin . . .	12.	63.	62.
Nokkundi . . .	...	....	*Insert* 2,282 in column 2 and *omit* the figures in columns 3 and 5.
Las Bela . . .	2.	210.	292.
Jaipur	3, 4 and 5.	28·112, —·020 and 28·009.	28·103, —·022 and 28·000.
Rajkot	2.	434.	432.
Pages 90-91.			
Nagpur . . .	33 and 34.	8·5 and +2·3.	6·3 and +0·1.

ERRATA TO MONTHLY WEATHER REPORT, JUNE 1933—*contd.*

Reference.	Column.	For	Read
Pages 92-93.			
Shillong . . .	2.	4,920.	4,921.
Darjiling . . .	....	....	*Omit* the figure in column 52.
Kalimpong . . .	2 and 4.	3,933 and +·040.	3,867 and —·021.
Parachinar . . .	2.	6,005.	5,673.
Drosh	2.	4,500.	4,723.
Page 96.			
Goalundo . . .	22.	—2·4.	—4·4.
Bombay . . .	1.	Bombay.	Bombay Deccan.
Hyderabad . . .	1.	Hyderabad.	Hyderabad North.

ERRATA TO MONTHLY WEATHER REPORT, JULY 1933.

Reference.	Column.	For	Read
Pages 100-101.			
Victoria Point . .	2 and 4.	147 and —·013.	157 and —·003.
Sandoway . . .	2.	42.	28.
Yamethin . . .	5, 29 and 30.	28·905, 1·92 and 3.	28·963, 2·60 and 29.
Sibsagar . . .	2.	333.	317.
Silchar	2.	104.	95.
Mymensingh . . .	2.	63.	62.
Faridpur . . .	2.	46.	27.
Midnapore . . .	9 and 13.	1, 31 and 4 days.	1, 21, 31 and 6, 17, 18.
Krishnagar . . .	2.	47.	48.
Berhampore . . .	2.	65.	62.
Bogra	2.	66.	63.
Pages 102-103.			
Balasore . . .	2.	64.	65.
Cuttack . . .	9.	21, 22.	10, 21, 22.
Darbhanga . . .	4.	+·025.	+·038.
Agra	9.	7, 10.	7.
Bareilly . . .	52.	0.	9.
Ambala . . .	12.	72.	73.
Page 104.			
Khushab . . .	12.	72.	71.
Lyallpur . . .	3 and 4.	28·868 and +·029.	28·851 and +·012.
Srinagar . . .	3 and 4.	24·762 and +·125.	24·633 and —·004.
Miranshah . . .	2.	3,039.	3,040.
Quetta	2.	5,407.	5,405.
Kalat	8.	97.	98.
Nokkundi . . .	....	....	*Insert* 2,282 in column 2; *omit* the figures in columns 3 and 5.
Las Bela . . .	2.	210.	292.
Chhor	20.	1·111.	1·000.
Jaipur	3, 4 and 5	28·128, +·021 and 28·046.	28·119, +·012 and 28·037.
Kotah	18 and 19.	·869 and +·059.	·831 and +·021.
Jamnagar . . .	3 and 4.	29·455 and —·049.	29·495 and —·017.
Rajkot	2.	434.	432.
Page 108.			
Madras . .	5.	29·569.	29·579.
Kalimpong . . .	2 and 4.	3,933 and +·399.	3,867 and +·038.
Shillong . . .	2.	4,920.	4,921.

ERRATA TO MONTHLY WEATHER REPORT, JULY 1933—*contd.*

Reference.	Column.	For	Read
Page 108—contd.			
Parachinar . . .	2.	6,005.	5,673.
Drosh	2.	4,500.	4,723.
Page 110.			
Charbar . . .	10.	61·9.	81·9.
Page 112.			
Pabna	5.	9, 25, 30.	4 days.
Sonemarg . . .	3, 4, 7 and 8.	4·03, +6·36, 10 and +0·9.	3·83, +0·16, 9 and —0·1.

ERRATA TO MONTHLY WEATHER REPORT, AUGUST 1933.

Reference.	Column.	For	Read
Pages 116-117.			
Victoria Point . .	2 and 4.	147 and +·003.	157 and +·013.
Sandoway . . .	2.	42.	28.
Sibsagar . . .	2.	333.	317.
Silchar	2, 12 and 13.	104, 73 and 19, 20, 28.	95, 71 and 15.
Comilla . . .	18.	·906.	·916.
Mymensingh . . .	2.	63.	62.
Faridpur . . .	2 and 33.	46 and 6·2.	27 and 6·2 (i).
Krishnagar . . .	2.	47.	48.
Berhampore . . .	2.	65.	62.
Bogra	2.	66.	63.
Pages 118-119.			
Balasore . . .	2.	64.	65.
Darbhanga . . .	4.	+·054.	+·067.
Sabour	32.	—0·9.	+0·1.
Agra	9.	2, 4.	2.
Ambala . . .	10, 11 and 12.	77·3, —0·6 and 72.	78·3, +0·4 and 73.
Page 120.			
Khushab . . .	12.	72.	71.
Lyallpur . . .	3 and 4.	28·993 and +·084.	28·976 and +·067.
Quetta	2.	5,407	5,405.
Kalat	8.	92.	93.
Dalbandin . . .	12 and 13.	59 and 29, 30.	58 and 29.
Nokkundi . . .	....	....	*Insert* 2,282 in column 2; *omit* the figures in columns 3 and 5.
Las Bela . . .	2.	210.	292.
Jaipur . . .	3, 4 and 5.	28·196, +·026 and 28·118.	28·187, +·017 and 28·109.
Rajkot	2.	434.	432.
Pages 122-123.			
Jubbulpore . . .	2.	1,327.	1,289.
Nagpur . . .	33 and 34.	4·2 and —0·9.	4·1 and —1·0.
Poona	6.	83·1.	81·3.
Hyderabad (Dn.) . .	3 and 4.	28·040 and +·051.	28·026 and +·037.
Pages 124-125.			
Negapatam . . .	39, 40, 41, 48, 49 and 50.	10, 10, 3, 9, 7 and 2.	1, 7, 21, 7, 5 and 6.
Kurnool . . .	....	....	*Insert* 0 in figure column 37.
Haka	3 and 5.	24·021 and 23·976.	24·011 and 23·966.
Shillong . . .	2.	4,920.	4,021.

ERRATA TO MONTHLY WEATHER REPORT, AUGUST 1933—*contd.*

Reference.	Column.	For	Read
Pages 124-125—contd.			
Kalimpong . . .	2 and 4.	3, 933 and +·116.	3,867 and +·055.
Parachinar . . .	2.	6, 005.	5,673.
Drosh	2.	4, 500.	4,723.
Nuwara Eliya . .	2.	6, 188.	6,170.
Page 126.			
Panjgur . . .	20.	·793.	·804.
Tehran . . .	3 and 5.	25·90 (*b*) and 25·82 (*b*).	25·84 (*b*) and 25·76 (*b*).
Page 128.			
Gnatong . . .	7 and 8.	29 and +1·0.	30 and +2·0.

ERRATA TO MONTHLY WEATHER REPORT, SEPTEMBER 1933.

Reference.	Column.	For	Read
Pages 132-133.			
Victoria Point . .	2 and 4.	147 and —·015.	157 and —·005.
Amherst . . .	30.	1.	16.
Sandoway . . .	2.	42.	28.
Sibsagar . . .	2.	333.	317.
Silchar	2.	104.	95.
Mymensingh . . .	2.	63.	62.
Faridpur . . .	2.	46.	27.
Krishnagar . . .	2.	47.	48.
Berhampore . . .	2.	65.	62.
Bogra	2.	66.	63.
Pages 134-135.			
Balasore . . .	2.	64.	65.
Purnea	31 and 32.	11 and —0·2.	12 and +0·8.
Ambala . . .	13.	14, 19, 20.	20.
Page 136.			
Lyallpur . . .	3 and 4.	29·088 and +·027.	29·071 and +·010.
Srinagar . . .	10 and 11.	50·6 and —3·1	55·7 and +2·0.
Miranshah . . .	2.	3, 039.	3,040.
Quetta	2.	5, 407.	5,405.
Kalat	8.	85.	86.
Dalbandin . . .	12 and 13.	51 and 21, 23.	50 and 21.
Nokkundi . . .	....	....	*Insert* 2,282 in figure column 2.
Jaipur	3, 4 and 5.	28·265, —·030 and 28·173.	28·256, —·039 and 28·164.
Rajkot	2.	434.	432.
Dohad	3.	28·648.	28·708
Page 138.			
Jubbulpore . . .	2.	1, 327.	1,289.
Hyderabad (Dn.) . .	3 and 4.	23·067 and +·020.	23·033 and —·014.
Pages 140-141.			
Shillong . . .	2 and 30.	4, 920 and 2.	4,921 and 3.
Kalimpong . . .	2 and 4.	3, 933 and +·077.	3,867 and +·016.
Parachinar . . .	2.	6, 005.	5,673.
Page 144.			
Lumding . . .	5.	18, 19.	7 days.
Sargodha . . .	....	....	*Insert* 0·5 in figure column 24.
Bidar	23.	N. 89 W.	W.

ERRATA TO MONTHLY WEATHER REPORT, OCTOBER 1933.

Reference.	Column.	For	Read
Page 148.			
Rangoon	46 and 48.	1 and 7.	2 and 11.
Sandoway	2.	42.	28.
Sibsagar	2.	333.	317.
Silchar	2.	104.	95.
Mymensingh	2.	63.	62.
Faridpur	2.	46.	27.
Krishnagar	2.	47.	48.
Berhampore	2.	65.	62.
Bogra	2.	66.	63.
Page 150.			
Balasore	2.	64.	65.
Darbhanga	4.	—·019.	—·006.
Ambala	12.	52.	53.
Page 152.			
Lyallpur	3 and 4.	29·238 and —·003	29·221 and —·020
Montgomery	18 and 19.	·448 and —·014.	·468 and +·006.
Miranshah	2.	3,039	3,040.
Quetta	2.	5, 407.	5,405.
Dalbandin	12.	37.	36.
Nokkundi	....	....	*Insert* 2,282 in figure column 2.
Jaipur	3, 4 and 5.	28·442, —·008 and 28·357	28·433, —·017 and 28·348.
Rajkot	2.	434.	432.
Page 154.			
Jubbulpore	2.	1, 327.	1,289.
Hyderabad (Dn.)	3 and 4.	28·147 and +·006.	28·113 and —·028.
Pages 156-157.			
Calingapatam	35 to 43.	1, 4, 19, 4, 0,1, 9, 0 and 2.	12, 2, 1, 1, 1, 0, 2, 12 and 0.
Shillong	2.	4, 920.	4,921.
Kalimpong	2 and 4.	3, 933 and +·053.	3,867 and —·008.
Parachinar	2.	6, 005.	5,673.
Nuwara Eliya	2.	6,188.	6,170.
Page 160.			
Zahidan	....	....	*Omit* the figures in columns 2, 4 and 5.

ERRATA TO MONTHLY WEATHER REPORT, NOVEMBER 1933.

Reference.	Column.	For	Read
Page 164.			
Sandoway . . .	2.	42.	28.
Sibsagar . . .	2.	333.	317.
Silchar	2.	104.	95.
Mymensingh . . .	2.	65.	62.
Faridpur . . .	2.	46.	27.
Krishnagar . . .	2.	47.	48.
Berhampore . . .	2.	65.	62.
Bogra	2.	66.	63.
Page 166.			
Balasore . . .	2.	64.	65.
Darbhanga . . .	4.	—·013.	0.
Bareilly . . .	3, 4 and 5.	29·412, +·009 and 29·327.	29·398, —·005 and 29·313.
Ambala . . .	12.	45.	46.
Page 168.			
Lyallpur . . .	3 and 4.	29·388 and +·004.	29·371 and —·013.
Miranshah . . .	2.	3,039.	3,040.
Quetta	2.	5,407.	5,405.
Dalbandin . . .	13.	24.	22, 23, 24.
Jaipur	3, 4 and 5.	28·548, —·007 and 28·464.	28·539, —·016 and 28·455.
Rajkot	2.	434.	432.
Page 170.			
Hyderabad (Dn.) .	3 and 4.	28·245 and +·027.	28·211 and —·007.
Pages 172-173.			
Cuddapah . . .	3 and 4.	29·498 and +·006.	29·487 and —·005.
Shillong . . .	2.	4,920.	4,921.
Kalimpong . . .	2 and 4.	3,933 and +·045.	3,867 and —·016.
Parachinar . . .	2.	6,005.	5,673.
Pachmarhi . . .	20, 24, 25, 26, 33 and 34.	·407, 3·2, +1·7, 2·9, 1·4 and —0·5.	·383, 3·1, +1·6, 3·1, 1·2 and —0·7.
Nuwara Eliya . .	2.	6,188.	6,170.
Page 175.			
Gwador . . .	31.	1.	2.
Page 176.			
Messa (Salona) . .	15.	+11.	+7.
Zahidan . . .	....	....	*Omit* the figures in columns 2, 4 and 5.

ERRATA TO MONTHLY WEATHER REPORT, DECEMBER 1933.

Reference.	Column.	For	Read
Page 180.			
Sandoway . . .	....	....	*Insert* 28 in the figure column 2.
Sibsagar . . .	2.	333.	317.
Silchar	2.	104.	95.
Mymensingh . . .	2.	63.	62.
Faridpur . . .	2.	46.	27.
Krishnagar . . .	2.	47.	48.
Berhampore . . .	2.	65.	62.
Bogra	2.	66.	63.
Pages 182-183.			
Balasore . . .	2.	64.	65.
Darbhanga . . .	4.	—·043.	—·030.
Bareilly . . .	3, 4 and 5.	29·448, —·009 and 29·376.	29·434, —·023 and 29·362.
Patiala	33 and 34.	1·4 (*a*) and —1·5.	1·5 and —1·4.
Lahore	....	....	*Omit* the figures in column 36.
Page 184.	*Omit* the footnote " (*a*) mean of 30 days ".		
Miranshah . . .	2.	3,039.	3,040.
Quetta	2.	5,407.	5,405.
Dalbandin . . .	12 and 13.	32 and 9, 17.	31 and 9.
Jaipur	3, 4 and 5.	28·553, —·043 and 28·472.	28·544, —·052 and 28·463.
Rajkot	2.	434.	432.
Page 186.			
Poona	8 and 9.	87 and 4, 6.	88 and 5.
Hyderabad (Dn.) . .	3 and 4.	28·265 and 0.	28·231 and —·034.
Page 188.			
Cuddapah . . .	3 and 4.	29·529 and —·024.	29·518 and —·035.
Shillong . . .	2.	4, 920.	4,921.
Kalimpong . . .	2 and 4.	3,933 and +·031.	3,867 and —·030.
Parachinar . . .	2.	6,005.	5,673.
Nuwara Eliya . .	2.	6,188.	6,170.
Pages 190-191.	*Omit* the footnote " (*a*) mean of 30 days ".		
Tehran (*c*) . . .	6, 7, 10, 11, 12, 13, 14, 15, 21, 23, 26, 27, 28, 29, 31, 32, 35, 43, 48, and 52.	50·5, 0, 34·0, +0·8, 17, 31, 38·0, 43·3, 76, 73, 5·2, 2·50, +1·27, 0·80, 7, +3·2, 2, 22, 1 and 24.	50·9, +0·4, 34·4, +1·2, 21, 7, 38·4, 43·7, 70, 70, 5·3, 2·93, +1·70, 0·83, 8, +4·2, 1, 3, 0 and 25; *insert* 35·0, 39·6, ·163, ·201 and 1·9 in columns 16, 17, 18, 20 and 33.
Addenda for November.			
Tehran (*c*) . . .	6, 7, 9, 15, 21, 23, 26, 27, 28, 29, 35, 36, 41 and 43.	64·8, +2·0; 3, 10, 11; 56·3, 54, 52, 1·6, 0·60, —0·28, 0·60, 4, 2, 0 and 24.	64·3, +1·5; 3, 10; 56·0, 53, 49, 1·5, 0·29, —0·59, 0·29, 8, 5, 2 and 15; *insert* 41·1, 47·2, ·177, ·219 and 1·9 in figure columns 16, 17, 18, 20 and 33.
Page 192.			
Zahidan . . .	....	....	*Omit* the figures in columns 2, 4 and 5.
Bakloh	....	....	*Omit* the figures in columns 4 and 8.

ERRATA TO ANNUAL SUMMARY, PART A—1933.

Reference.	Column.	For	Read
Pages A6-A7.			
Gauhati.	45.	20.	26.
Satkhira.	19.	—·027.	—·019.
Page A9.			
Rawalpindi.	21.	01.	61.
Page A10.			
Miranshah.	13.	....	*Insert* I.
Page A14.			
Poona.	7.	—11.	—1·1.
Nellore.	20.	3.	·732.
Vizagapatam.	9.	IV.	VI.
Gopalpur.	9.	IV.	VI.
Pages A16-A17.			
Kanpetlet.	26.	5.	5·9.
Shillong.	26.	7.	7·7.
Cherrapunji.	26.	5·	5·4.
Kalimpong.	26.	6·	6·0.
Parachinar.	20.	71.	·271.
Colombo.	33.	·8.	4·8.
Aden.	18.	80.	·830.
Pages A20-A21.			
Kashgar—December.	7.	+·1.	+7·1.
Kashgar—Year.	30.	II.	III.
Pages A22-A23.			
Kabul—March.	27.	4·8.	4·85.
Abadan—Year.	18, 21 and 30.	·32, — and I.	·322, 39 and II.
Page A25.			
Baitul Falaj (Muscat).	52.	97.	91.
Page A26.			
Jammu.	10.	7·0.	70·0.
Jogimatti.	8.	4.	54.
Page A27.			
Lahore—May.	3.	2·922.	28·922.
Lahore—September.	27.	7.	17.

ERRATA TO ANNUAL SUMMARY, PART A—1933.

Reference.	Column.	For	Read
Page A28.			
Srinagar—September.	17.	....	—8.
Page A29.			
Bombay—February.	3 and 4.	29·831 and —·041.	29·833 and —·039.
Poona.	1.	Poona (1843).	Poona (1834).
Poona—May.	21.	....	3.
Page A30.			
Kodaikanal—December.	3.	22·750.	22·755.
Page A32.			
Katmandu—June.	3.	25·079.	25·379.
Seychelles—March.	7 and 18.	—·088 and 76·0.	—·008 and 76·9.
Page A35.			
Srinagar—June.	17.	1.	16.
Srinagar—November.	8.	165·9.	195·9.
Srinagar—Year.	14.	4·6.	41·6.
Quetta—November.	18.	0·8.	9·8.
Quetta—Year.	11.	0.	
Page A36.			
Jaipur—October.	10.	1·1.	11·1.
Page A38.			
Kodaikanal—November.	3.		*Insert* 4.
Page A39.			
Kodaikanal—August.	15—16.	0.	10.
Pages A44-A45.			
Upper Burma.	20.	0·59.	—0·59.
United Provinces West.	16.	—6.	—56.
Konkan.	36.	6.	—6.
Pages A46-A47.			
Lower Burma.	23.		—0·7.
Punjab East and North.	25.	—0·4.	—0·40.
Rajputana West.	25.	—0·1.	—0·11.
Page A49.			
Central India West.	13.	+0.	+10.
Page A50.			
Bombay Deccan.	5.	—3·4.	+3·4.
Page A51.			
Cuttack.	4.	4·63.	4·65.

ERRATA TO ANNUAL SUMMARY, PART D—1933.

Reference.	Column.	For	Read
Page D-6.	21 (last line).	E.	89°E.
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MGIPC—M—VIII-3-15—6-2-36—290.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1933

ANNUAL SUMMARY

PART A.

SUMMARY OF WEATHER WITH TABLES

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Published by Authority of the Government of India

UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.,

Director General of Observatories.

PUBLISHED BY MANAGER OF PUBLICATIONS, DELHI.
PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, NEW DELHI.
1935

Price Rs. 2-14 or 5s.

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INDIA WEATHER REVIEW, 1933.

ANNUAL SUMMARY

PART A

WEATHER AND RAINFALL OF 1933.

Summary.—The year was characterised by a good Monsoon and abundant rainfall over most of the country. The winter rains were deficient in northwest India, but were in excess from Bengal to Hyderabad. Thunderstorms were very numerous during the hot weather, causing an excess of rainfall over most of the country and unusually mild summer conditions in northern and central India. The monsoon commenced earlier than usual and was generally active without any prolonged breaks; it gave abundant and well distributed rainfall, the only areas recording a defect in this season being the east United Provinces and east Central India. From October onwards, though the total rainfall was in excess in the Peninsula and as far north as the United Provinces, the time-distribution of rain in the south was not favourable.

I.—*The cold weather period, January and February.*—In *January* weather was drier than usual in northwest India despite the eastward passage of six western disturbances. There was, however, an excess of rainfall in northeast India during the month. The northeast monsoon was weak.

During *February* five western disturbances affected weather over India. The precipitation was in excess in west Rajputana, east Central India, the Central Provinces, Orissa, Chota Nagpur and Hyderabad.

Three well marked cold spells prevailed in January in northern and central India, the last one extending as far south as the north Deccan; the first lasted from the 5th to 9th, the second from the 13th to 17th and the last one from the 24th to 29th.

The total rainfall during the cold weather period was in moderate to large excess in Bengal, Bihar and Orissa, the east Central Provinces and Hyderabad, in slight excess in the west Central Provinces and normal in the east United Provinces, Kashmir and Gujarat; it was in slight to moderate defect in Assam, the west United Provinces, the east and north Punjab, the North-West Frontier Province, Baluchistan, west Rajputana, east Central India, Berar and the Bombay Deccan, and in large defect elsewhere.

During the cold weather period the mean minimum temperature was above normal in the Central Provinces; elsewhere mean temperatures were roughly normal.

Cloud amount was above normal in Bengal, Bihar and Orissa, Central India, the Central Provinces, Sind, Rajputana, Gujarat and the Peninsula.

Humidity was in excess in Hyderabad and in defect in the United Provinces, Central India and northwest India.

II.—*The hot weather period, March to May.*—The chief features in the month of *March* were the passage of eight western disturbances which caused an excess of precipitation in Kashmir and the Punjab hills, and the unusual activity of thunderstorms in the interior of the Peninsula.

In *April* nine western disturbances were responsible for widespread thunderstorms and excess of rainfall over most of northern India. Thunderstorms were also active in the west of the Peninsula and caused excess of rainfall there.

During *May* five western disturbances affected weather over India. The Arabian Sea monsoon established itself in Malabar on the 22nd of May, about ten days earlier than usual, in the wake of a storm which formed off the west coast about the middle of the month; it extended

into the Konkan and the Bombay-Deccan towards the end of the month. In the wake of a storm in the Bay of Bengal, the Bay monsoon established itself in Burma during the last week. The rainfall during the month was in excess over most of the country.

The summer conditions in northern and central India were unusually mild in both April and May; temperature was appreciably below normal frequently in April and during the first three weeks in May as a result of the cooling effects associated with thunderstorm rain.

The total rainfall during the hot weather period was in slight defect in the Bay Islands, Assam and the southwest Punjab; it was normal in Lower Burma, Bengal, Kashmir, the North-West Frontier Province, Baluchistan and Sind, in slight to moderate excess in Orissa, Chota Nagpur, the east and north Punjab and the north Madras coast and in large excess elsewhere.

During the hot weather period the mean maximum temperature was below normal in the United Provinces, the Punjab, Rajputana, Central India, the Central Provinces, Hyderabad and the Madras Presidency.

Cloud amount was above normal in Bihar and Orissa, the United Provinces, the Central Provinces, northwest India excepting Sind and in the Peninsula.

Humidity was in excess in the Central Provinces and Hyderabad and in defect in Assam and Sind.

III.—*The southwest monsoon period, June to September.*—The Arabian Sea monsoon was active on the west coast upto Ratnagiri and in the Deccan during the first week of *June*. Thereafter it was generally weak till the middle of the month when it strengthened in connection with the northward movement of a low pressure wave from Kanara to Kathiawar between the 18th and 21st, and also extended into Gujarat, Rajputana and the adjoining parts to the east of the e divisions. The monsoon extended into the east and north Punjab on the 20th and into Kashmir and the North-West Frontier Province on the 22nd. The Bay monsoon extended into Assam on the 4th and into the rest of northeast India after the 9th. The activity of the monsoon between the 10th and 20th was controlled by a depression which formed off the Circars-Orissa coast on the 12th and filled up over Orissa five days later; during this period the monsoon also extended into the north Madras coast and the east Central Provinces. During the last week the monsoon was fairly strong over most of the country under the influence of two land depressions, one over Bengal and the other over the west United Provinces.

During the first 12 days of *July* the activity of the monsoon was confined only to Malabar, Kanara, Hyderabad, Upper Burma and in the hills and sub-montane districts from Assam to the Punjab. The monsoon, however, strengthened thereafter and was generally active over the whole of the country during the rest of the month; this activity was associated with the westward or northwestward movement of four depressions from the Bay of Bengal through the central parts of the country.

In *August* the activity of the monsoon during the first two weeks was controlled by a storm and a depression which formed in the north Bay of Bengal and moved to northwest India through the central parts of the country. After the 12th the monsoon weakened in the Peninsula, in and around the central parts of the country and in Lower Burma, but fairly widespread thunderstorms occurred in south Madras on the next seven days. In connection with the movement of a low pressure wave along the west coast, the Arabian Sea monsoon strengthened again in the Peninsula after the 18th and was fairly active there till the end of the month. The monsoon also revived in the central parts of the country after the 20th under the influence of a depression which moved from Bihar to the southeast Punjab between the 21st and 28th.

A further strengthening of both the branches of the monsoon took place in the beginning of *September* and it was, on the whole, active over the country during the first three weeks. This activity was associated with the movement of one depression along the west coast from off Kanara to Kathiawar, one depression from the Bay of Bengal to the west Central Provinces through the north Madras coast and the east Central Provinces, and one depression and one storm from the Bay to the southeast Punjab through the central parts of the country. The monsoon began to weaken towards the end of the third week and it withdrew from the country by the 27th. After this a rapid transition to the northeast monsoon type of weather took place and fairly widespread thundershowers occurred in the south and the west of the Peninsula.

The total rainfall during the southwest monsoon season was in slight defect in the east United Provinces and east Central India; it was normal in Burma, Assam, Chota Nagpur, Bihar, southeast Madras, the Madras Deccan and the north Madras coast, in slight to moderate excess in the Bay Islands, Bengal, Orissa, the west United Provinces, Kashmir, Baluchistan, Rajputana, Gujarat, west Central India, the Central Provinces, the Konkan, the Bombay Deccan, Hyderabad, Mysore and Malabar, and in large excess in the Punjab, the North-West Frontier Province and Sind.

During the monsoon season the mean maximum temperature was below normal in the Punjab, Rajputana and Hyderabad.

Cloud amount was above normal in the United Provinces and in northwest India excepting Sind and Gujarat.

Humidity was in excess in the Punjab, the North-West Frontier Province and Hyderabad.

IV.—*The period of retreating southwest monsoon, October to December.*—During *October* one storm formed in the Bay of Bengal and one depression in the Arabian Sea. These two disturbances caused an excess of precipitation in the Peninsula, Central India and the United Provinces. Of the two western disturbances which passed across Kashmir, the first caused widespread rain there and in the North-West Frontier Province and the Punjab hills.

In *November* the northeast monsoon was weaker than usual in the Peninsula except when it was stimulated by a depression and a storm from the Bay of Bengal. In northern India also weather was drier than usual in spite of the passage of four western disturbances eastwards across Kashmir.

The precipitation over northwest India during *December* was in defect in spite of seven western disturbances which affected the weather there. The movement of a storm from the southwest Bay of Bengal into southeast Madras and of unsettled conditions associated with it along the west coast caused more than normal rainfall for the month in the Peninsula as far north as the central parts of the country.

The total rainfall during the retreating southwest monsoon period was in moderate to large excess in the United Provinces, east Rajputana, east Central India, Berar, the Konkan, the Bombay Deccan, Hyderabad, Mysore and the north Madras coast, in slight excess in Orissa, west Central India, the west Central Provinces and the Madras Deccan and normal in the Bay Islands, Chota Nagpur, Bihar, Malabar and southeast Madras; it was in slight to moderate defect in Lower and Upper Burma, Assam, Bengal, the east and north Punjab, Gujarat and the east Central Provinces and in large defect elsewhere.

During the retreating southwest monsoon period the mean maximum temperature was above normal in the North-West Frontier Province and the mean minimum in Sind.

Cloud amount was above normal in the North-West Frontier Province, the Bombay Presidency and Hyderabad.

V.—*Year.*—Taking the year as a whole, rainfall was normal in Burma, northeast India, the United Provinces and the North-West Frontier Province, in slight excess in Central India and the Madras Presidency and in moderate to large excess in the Punjab, Sind, Rajputana, the Bombay Presidency, the Central Provinces, Hyderabad and Mysore. Averaged over the plains of India, the year's rainfall was in excess by 12 per cent.

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS FOR THE YEAR 1933.

	RAINFALL.*				DEPARTURE FROM NORMAL OF				
							8 hrs. L. M. T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
	"	"	"		°	°	"	%	
Division.									
1. Burma	8·76	9·14	—0·38	—4	+0·3	+0·3	—·014	—2	+0·2
2. Assam	6·93	7·42	—0·49	—7	+0·5	+0·3	—·001	—1	+0·1
3. Bengal	6·86	6·48	+0·38	+6	+0·4	0	—·010	—1	+0·5
4. Bihar and Orissa.	4·79	4·34	+0·45	+10	—0·8	—0·4	—·012	—1	+0·6
5. United Provinces.	3·74	3·46	+0·28	+8	—1·1	—0·6	—·001	+1	+0·7
6. Punjab	2·48	1·61	+0·87	+54	—1·6	0	+·021	+2	+0·6
7. North-West Frontier Province	0·95	0·94	+0·01	+1	—0·2	—0·1	—·005	+1	+0·6
8. Sind	0·96	0·51	+0·45	+88	—0·8	+1·0	—·004	—3	+0·2
Sub-Division.									
1. Bay Islands	9·80	9·70	+0·10	+1	—1·1	+0·6	—·029	—1	0
2. Lower Burma	11·91	12·62	—0·71	—6	+0·2	+0·2	—·014	—1	+0·4
3. Upper Burma	4·26	4·17	+0·09	+2	+0·3	+0·3	—·014	—3	—0·1
4. Assam	6·93	7·42	—0·49	—7	+0·5	+0·3	—·001	—1	+0·1
5. Bengal	6·86	6·48	+0·38	+6	+0·4	0	—·010	—1	+0·5
6. Orissa	6·09	4·83	+1·26	+26	—1·1	—0·2	—·006	+1	+0·8
7. Chota Nagpur	4·77	4·31	+0·46	+11	—1·9	—1·0	—·003	—1	+0·7
8. Bihar	4·26	4·15	+0·11	+3	+0·1	—0·2	—·022	—3	+0·5
9. United Provinces, East	3·10	3·47	—0·37	—11	—0·6	—0·2	—·007	0	+0·5
10. Do. West	4·28	3·46	+0·82	+24	—1·6	—1·1	—·005	+1	+1·0
11. Punjab, East and North	3·63	2·21	+1·42	+64	—1·7	—0·2	+·022	+2	+0·9
12. Do. Southwest	0·95	0·81	+0·14	+17	—1·3	+0·3	+·021	+1	+0·2
13. Kashmir	2·50	2·28	+0·22	+10	—1·2	+0·7	+·015	+4	+0·6
14. North-West Frontier Province	0·95	0·94	+0·01	+1	—0·2	—0·1	—·005	+1	+0·6
15. Baluchistan	0·76	0·68	+0·08	+12	—0·5	+1·1	—·009	+5	+0·7
16. Sind	0·96	0·51	+0·45	+88	—0·8	+1·0	—·004	—3	+0·2
17. Rajputana West	1·75	1·06	+0·69	+65	—1·4	—0·8	—·010	0	+0·3

	RAINFALL.*				DEPARTURE FROM NORMAL OF				
							8 hrs. L. M. T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
	"	"	"		°	°	"	%	
Division—*contd.*									
9. Rajputana	2·55	1·70	+0·85	+50	—1·9	—1·1	+·003	0	+0·7
10. Bombay	4·31	3·11	+1·20	+39	—0·3	+0·3	—·005	—1	+0·7
11. Central India	3·77	3·12	+0·65	+21	—0·3	—0·7	—·006	—1	+0·2
12. Central Provinces	4·97	3·90	+1·07	+27	—0·9	+0·4	+·023	+3	+0·3
13. Hyderabad	3·52	2·75	+0·77	+28	—2·1	+0·2	+·018	+4	+0·9
14. Mysore	3·53	2·65	+0·88	+33	—0·3	+0·7	+·014	+3	+0·7
15. Madras	4·66	4·04	+0·62	+15	—1·2	+0·3	—·006	0	+0·9
Mean of India	4·71	4·21	+0·50	+12	—0·7	0	0	0	+0·5
Sub-Division—*contd.*									
18. Rajputana East	2·93	2·02	+0·91	+45	—2·1	—1·3	+·011	0	+0·9
19. Gujarat	3·15	1·93	+1·22	+63	—0·1	+0·5	—·014	—3	+0·9
20. Central India, West	4·42	2·60	+1·82	+70	—1·3	—0·1	+·025	—3	+0·1
21. Do. do, East	3·11	3·65	—0·54	—15	+0·7	—1·4	+·013	+1	+0·4
22. Berar	3·60	2·68	+0·92	+34	—1·1	+1·1	+·010	+1	—0·2
23. Central Provinces, West	4·93	3·90	+1·03	+26	—0·9	+0·5	+·019	+1	+0·3
24. Do. do, East	5·71	4·51	+1·20	+27	—1·0	0	+·036	+6	+0·6
25. Konkan	9·38	8·08	+1·30	+22	+0·1	+0·3	+·001	0	0
26. Bombay Deccan	3·25	2·39	+0·86	+36	—0·8	+0·1	+·008	+1	+0·6
27. Hyderabad North	3·83	2·89	+0·94	+33	—1·6	+0·7	+·002	+3	+1·1
28. Do. South	3·22	2·62	+0·60	+23	—2·6	—0·2	+·030	+5	+0·7
29. Mysore	3·53	2·65	+0·88	+33	—0·3	+0·7	+·014	+3	+0·7
30. Malabar	12·69	8·79	+3·90	+44	—0·5	+0·3	+·005	+1	+1·6
31. Madras, Southeast	3·02	3·29	—0·27	—8	—1·4	+0·5	—·020	—1	+1·3
32. Do. Deccan	2·46	2·14	+0·32	+15	—2·3	+0·5	+·024	+2	+0·6
33. Do. Coast, North	3·52	3·38	+0·14	+4	—1·0	—0·1	—·002	0	+0·3

* Based on data from observatories only as in Monthly Weather Reports. For fuller data see tables XI to XV.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar eleter above mean sea level inches.	Pressure reduced to 32°F and standard gravity inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature. °F.		Wet bulb temperature. °F.		Vapour pressure, inches.			Relative humidity %		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. L. S. T.	Mean.	Departure from normal.	Highest.	Month.	Mean.	Departure from normal.	Lowest.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. L. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. L. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. L. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. L. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bay Islands.																						
Port Blair	59	29·765	−·016	29·699	85·9	−1·2	93	IV	77·5	+0·5	71	II	80·1	81·9	76·2	76·5	·850	−·029	·838	83	−1	77
Lower Burma—																						
Victoria Point	157	29·695	−·007	29·630	85·4	−0·3	94	II	74·9	0	68	XII	78·7	80·3	74·9	75·1	·811	−·019	·795	82	−1	78
Mergui	66	29·786	−·011	29·706	86·8	−0·6	96	III	72·9	+1·0	64	XII	77·2	81·3	74·8	76·2	·827	−·004	·837	89	+2	80
Tavoy	19	29·839	−·011	29·758	89·2	+1·3	99	III	71·5	−0·2	57	XII	77·1	80·7	73·7	75·5	·785	−·020	·807	84	−4	78
Amherst	71	29·782	...	29·697	86·9	...	94	IV, V	74·0	...	63	XII	78·6	81·6	74·3	75·8	·791	...	·816	81	...	76
Rangoon	18	29·820	−·011	29·732	89·9	+0·6	103	IV	73·1	+0·1	61	I, II	77·3	83·4	73·9	75·2	·792	−·011	·780	84	−3	71
Bassein	27	29·807	−·009	29·727	89·5	+1·3	101	III	72·3	−0·3	57	I	78·1	81·1	74·2	74·8	·801	−·023	·780	82	−6	74
Diamond Island	41	29·777	−·020	29·708	84·8	−0·5	92	V	77·1	+1·4	70	IV	80·0	80·5	75·6	75·7	·830	−·002	·826	81	+1	70
Cwa	11	29·817	...	29·746	85·6	...	94	V	70·0	...	50	I	76·3	80·9	73·7	76·5	·808	...	·848	88	...	82
Sandoway*	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Toungoo	158	29·684	−·002	29·578	90·6	+0·7	104	III, V	70·9	+0·5	51	I	75·7	82·3	71·7	74·3	·740	−·040	·742	82	−4	69
Kyaukpyu	18	29·781	−·023	29·717	81·2	−3·5	96	V	73·5	+0·7	57	I	77·8	80·5	74·7	75·8	·822	0	·830	86	0	79
Akyab	20	29·797	−·010	29·716	85·3	−0·5	94	V	70·7	−1·0	50	I	76·1	79·5	72·9	74·6	·781	−·020	·803	85	−4	78
Upper Burma—																						
Minbu	168	29·654	−·010	29·535	91·4	0	110	V	71·2	−0·8	48	II	77·3	84·7	70·9	73·3	·691	−·007	·675	72	−3	58
Yamethin	644	29·175	−·008	29·067	90·7	−0·4	104	IV, V	69·9	+0·1	50	I, II	75·5	83·1	70·1	73·2	·673	−·028	·684	74	−5	63
Mandalay	250	29·561	−·021	29·436	92·4	−0·4	105	IV, V	71·6	+0·3	51	II	76·0	85·3	71·0	73·8	·708	+·013	·685	77	+3	57
Monywa	280	29·550	−·012	29·435	93·3	+1·7	110	V	71·1	−0·1	53	I, XII	76·5	85·7	70·0	73·5	·670	−·032	·675	73	−4	58
Lashio	2,802	27·057	+·003	26·956	81·4	−0·2	94	V	60·8	+0·3	42	XII	66·1	72·4	62·4	65·0	·533	−·026	·535	81	−5	67
Bhamo	416	29·434	−·013	29·320	86·1	+0·2	101	V	65·7	+0·8	43	XII	70·5	79·1	67·5	72·5	·658	−·020	·718	86	−3	72
Myitkyina	463	29·355	−·004	29·237	85·7	+1·6	101	V	66·1	+0·5	46	I	71·0	78·2	67·7	71·3	·657	+·001	·688	95	−2	76
Assam—																						
Dibrugarh	348	29·484	−·001	...	82·0	+1·2	97	VIII, IX	65·5	+0·3	44	I	69·8	...	67·5	...	·652	−·015	...	88	−4	...
Sibsagar	333	29·517	+·001	29·401	83·0	+1·7	99	VIII	66·2	+0·5	43	I	70·4	76·8	68·7	71·9	·703	+·005	·740	92	−2	78
Tezpur	258	29·586	+·004	29·464	84·8	+1·6	99	VIII	67·5	+0·5	48	I	72·6	77·6	69·1	71·1	·691	+·011	·690	83	−6	73
Gauhati	196	29·627	−·018	29·613	85·1	+0·6	100	VIII	67·2	+0·9	45	I	71·5	79·2	68·7	72·0	·692	−·007	·703	87	−1	69
Dhubri	115	29·693	−·011	29·583	82·8	0	100	IV	68·5	+0·5	47	I	72·4	79·4	69·3	71·9	·702	−·001	·200	84	−3	70
Silchar	104	29·749	+·010	29·629	87·3	+1·2	101	VII	66·9	−0·6	44	I	72·9	82·0	69·5	74·1	·703	−·021	·727	84	−3	66
Sri mangal	69	29·755	+·003	29·646	87·6	−0·2	101	III, IV	63·7	−1·4	37	I	72·7	81·2	69·8	73·5	·717	−·001	·740	86	−2	69
Bengal																						
Cox's Bazar	36	29·780	+·001	29·706	84·9	−0·1	93	V	69·4	0	49	I	76·1	79·1	72·1	73·6	·747	−·031	·760	81	−6	76
Chittagong	87	29·733	−·002	29·648	86·2	+1·3	98	III	69·5	+0·2	48	I	74·8	79·5	70·3	73·0	·705	−·050	·735	80	−6	72
Noakhali	22	29·783	+·008	29·691	85·5	+0·9	95	III, V, IX	71·8	+0·5	51	I	75·8	81·0	72·6	74·2	·779	+·002	·769	85	−2	71
Comilla	37	29·772	−·009	29·679	...	...	...	...	68·8	+0·1	44	I	75·4	81·3	71·9	74·5	·757	−·005	·775	83	−3	71
Narayanganj	26	29·781	−·003	29·687	87·1	+0·9	102	IV	70·3	−0·2	46	I	75·4	81·4	71·4	72·8	·742	−·027	·706	81	−4	66
Mymensingh	62	29·764	+·009	29·659	86·4	+1·6	102	IV	68·3	−0·6	43	I	74·0	81·7	70·8	73·5	·734	−·003	·734	85	−2	68
Faridpur	27	29·777	+·010	29·680	87·0	+1·6	103	III, IV	69·0	0	44	I	74·9	81·0	71·6	73·2	·759	−·016	·731	84	−3	69
Barisal	12	29·789	0	29·700	86·6	+0·8	98	III, IV	70·3	0	46	I	76·2	81·4	72·3	73·8	·755	−·039	·744	83	−2	70
Khulna	16	29·796	+·002	29·699	86·8	+0·4	101	IV	70·5	+0·9	46	I	76·5	80·3	72·4	73·3	·761	−·004	·742	81	+1	71
Jessore	26	29·785	+·013	29·684	87·3	...	103	IV	67·5	...	39	I	75·6	79·3	72·4	73·1	·777	+·006	·760	85	+1	75
Satkhira	...	29·783	−·021	29·690	85·3	+0·3	103	IV	69·1	+0·1	48	I	75·9	81·9	72·5	74·3	·775	−·027	·762	84	0	69
Calcutta	21	29·777	+·002	29·683	87·3	+0·4	101	IV	71·3	+0·6	48	I	74·9	81·8	71·8	73·3	·764	−·004	·720	85	+2	66
Sangor Island	10	29·782	−·001	29·701	84·0	−1·4	95	III	73·2	−0·2	50	I	78·2	80·2	74·0	74·6	·798	−·029	·797	81	−4	75
Sandheads	8	29·768	−·013	29·691	...	...	...	...	...	...	...	...	80·4	81·7	75·1	75·5	·810	−·035	·813	77	−3	74
Midnapore	149	29·649	+·009	29·555	88·8	−1·0	108	IV	70·0	−0·5	48	I	75·3	83·6	70·7	73·1	·713	0	·685	79	+3	61
Burdwan	99	29·695	−·001	29·598	88·6	−0·2	108	IV	69·3	−1·1	44	I	73·8	83·1	70·4	73·2	·727	+·011	·704	83	+4	62
Krishnagar	48	29·748	−·003	29·652	89·4	+1·1	107	IV	68·1	−0·8	39	I	75·1	81·9	71·1	73·2	·739	−·003	·714	81	−1	66
Asansol	414	29·371	−·051	29·262	87·9	−1·2	110	VI	68·4	−0·3	42	I	74·3	84·0	68·2	70·8	·644	−·036	·587	72	−3	62
Berhampore	62	29·747	+·013	29·642	87·0	+0·3	107	IV	68·3	−1·3	39	I	75·0	82·1	70·7	72·8	·721	−·007	·691	80	−3	64
Bogra	63	29·742	−·001	29·639	86·3	+0·1	105	IV	68·4	+0·3	41	I	74·5	80·8	70·5	72·8	·719	−·001	·718	81	−2	68
Malda	108	29·698	−·018	29·598	87·0	0	105	V	67·6	0	41	I	74·4	81·8	69·4	72·1	·681	−·037	·681	77	−4	63
Dinajpur	123	29·672	−·007	29·570	86·3	+0·3	103	IV	67·0	+0·1	39	I	73·1	82·4	68·8	72·4	·670	−·015	·682	79	−4	61
Jalpaiguri	274	29·544	+·002	29·435	85·5	+1·2	99	VII, VIII	66·4	+0·2	45	I	72·8	77·8	69·1	72·4	·692	+·007	·742	85	−1	77

*Data not available for the whole year.

8-HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1933.

Cloud amount (tenths of sky.)			Rainfall, inches.				Number of rainy days (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											8 hrs. L. M. T.									17 hrs. I. S. T.								
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
5·9	0	6·1	117·61	+1·19	6·45	IX	131	−7·6	4·1	−1·5	28	32	20	11	18	39	38	31	148	32	37	23	13	16	34	44	26	140	**Bay Islands.** Port Blair.
																													Lower Burma—
7·6	+1·4	8·1	138·32	−28·14	3·88	VII	160	+3·3	4·7	−0·7	7	149	67	40	14	33	24	7	24	13	67	66	17	10	67	39	39	47	Victoria Point.
2·9?	−1·6?	3·8?	167·77	+6·53	5·66	VII	154	+0·2	...	...	0	39	146	85	72	20	1	2	0	0	66	14	31	74	54	0	126	0	Mergui.
6·2	+2·0	6·6	194·52	−20·22	8·20	VI	142	−2·4	2·1	+0·9	6	14	4	10	15	7	0	0	309	7	11	5	15	24	18	1	5	279	Tavoy.
6·3	...	5·7	192·53	+2·69	6·05	VII	133	−5·0	6·8	...	7	41	75	55	80	27	11	8	52	24	11	22	3	68	96	92	37	12	Amherst.
5·5	−0·4	5·9	103·70	+4·67	6·32	V	124	+1·7	3·0	−0·1	50	64	29	29	56	39	33	18	47	15	12	6	66	131	52	30	12	41	Rangoon.
6·1	+1·4	7·2	98·06	−11·07	5·55	VI	118	−6·8	3·0	−0·3	21	29	9	25	30	28	38	33	152	15	5	8	11	28	50	92	61	95	Bassein.
5·1	−0·1	5·0	143·04	+25·14	6·27	IX	112	−1·8	6·9	...	50	60	24	17	28	60	33	68	25	13	7	18	28	22	70	77	118	12	Diamond Island.
4·8	...	5·3	154·26	...	5·68	VI	123	...	4·0	...	27	13	3	61	58	9	0	10	184	55	2	0	22	40	19	5	162	60	Gwa.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Sandoway. *
5·7	+0·2	6·3	87·82	+4·86	2·96	VI	104	−10·7	2·9	+0·5	38	23	34	162	69	8	7	42	42	6	12	35	90	57	17	12	18	118	Toungoo.
5·1	−0·3	4·7	171·80	−15·99	7·97	V	121	−8·0	3·6	+1·4	34	93	19	103	22	12	9	15	58	5	4	0	28	29	56	117	53	73	Kyaukpyu.
5·8	+0·8	5·1	169·40	−33·97	14·06	V	114	−11·5	6·9	...	62	144	41	40	18	14	7	18	21	6	4	8	19	53	49	126	90	10	Akyab.
																													Upper Burma—
4·1	0	4·2	43·06	+7·68	2·40	X	71	+13·8	...	..	11	0	3	141	24	4	2	100	80	8	1	1	42	19	17	73	52	152	Minbu.
4·2	+0·3	4·5	34·94	−3·08	2·60	VII	64	+0·7	2·7	−0·8	39	1	0	29	180	4	0	10	102	12	2	1	13	141	11	3	2	180	Yamethin.
4·3	+0·5	4·6	29·33	−8·83	2·65	VI	53	+2·2	2·0	−1·5	15	7	6	69	90	24	3	5	146	35	21	7	41	39	12	5	8	197	Mandalay.
4·2	−0·9	4·2	28·00	−3·05	2·83	V	48	+3·9	2·0	−0·2	120	14	8	103	17	3	5	57	38	25	11	9	63	21	6	5	19	205	Monywa.
5·5	−0·6	5·2	54·52	−7·35	2·07	VII	97	−3·7	1·9	−0·3	6	13	7	6	26	26	5	5	271	7	4	1	1	61	103	50	21	117	Lashio.
6·4	+0·8	4·3	80·21	+8·20	7·81	VIII	87	−13·5	1·8	+0·3	72	61	19	14	18	7	13	20	141	47	66	19	12	29	8	16	12	156	Bhamo.
5·5	−0·3	4·4	88·11	+9·12	3·55	V	101	−4·5	2·5	+0·7	72	88	40	31	33	14	8	14	65	37	30	10	13	45	28	16	13	173	Myitkyina.
																													Assam—
5·1	−0·6	...	105·06	−3·36	4·50	VIII	119	−15·5	2·5	+1·8	56	75	91	18	23	1	5	27	69	...	...	...	...	...	...	...	...	...	Dibrugarh.
8·0	+0·7	5·9	103·93	+7·94	4·70	VI	127	−1·5	2·8	...	34	113	54	23	21	39	11	24	46	61	103	26	14	20	34	15	26	66	Sibsagar.
5·7	+0·7	4·6	67·88	−6·36	4·27	VII	98	−7·1	1·2	−1·1	5	57	134	19	6	9	12	3	120	1	25	62	5	0	4	15	4	239	Tezpur.
5·3	−0·9	4·9	48·62	−16·67	9·17	VII	73	−19·8	2·5	+1·2	19	79	67	64	26	12	8	13	77	4	26	47	31	18	15	27	26	171	Gauhati.
4·0	−0·6	4·1	70·44	−26·06	3·72	IX	94	−0·3	3·3	−0·7	24	131	58	18	29	15	2	2	84	15	62	23	17	27	29	22	8	162	Dhubri.
5·2	+0·1	4·7	116·11	−8·57	5·88	VI	112	−24·1	1·2	−0·3	6	40	60	19	4	3	2	8	222	7	8	16	12	6	38	45	25	208	Silchar.
4·7	+1·8	5·1	107·78	+9·25	8·72	VI	110	−13·7	...	...	22	50	88	110	31	3	0	6	55	8	14	9	47	61	94	31	7	94	Srimangal.
																													Bengal—
5·5	+1·2	5·5	100·34	−45·43	5·60	VIII	104	−6·5	2·7	−0·4	15	16	36	76	27	13	0	2	180	15	5	4	45	53	41	28	36	138	Cox's Bazar.
4·9	+0·2	4·6	120·93	+18·20	9·50	VII	93	−2·0	5·7	+2·4	46	94	56	103	56	3	1	5	1	34	6	3	21	73	106	61	60	1	Chittagong.
4·6	+0·8	4·3	79·91	−41·00	6·73	IX	93	−20·0	4·6	+1·7	87	46	27	65	62	31	11	35	1	29	9	5	68	103	39	42	65	5	Noakhali.
5·0	+1·1	5·8	79·75	−10·56	4·25	IX	88	−12·2	...	...	27	26	22	72	71	16	3	13	115	12	7	9	39	82	28	13	17	158	Comilla.
4·9	−0·3	4·5	82·01	+8·19	4·96	VII	99	+5·7	3·4	+0·2	29	31	46	56	57	40	21	61	24	18	5	16	53	91	28	21	58	75	Narayanganj.
4·6	−0·6	4·1	79·90	−13·05	6·74	VIII	96	−9·4	2·0	+0·4	5	29	36	123	4	7	6	12	143	0	11	14	70	7	6	24	7	226	Mymensingh.
5·0	+1·2	5·1	78·26	+6·54	5·62	VII	93	−0·3	3·4	...	19	24	19	85	90	5	15	56	52	10	11	7	71	83	2	18	27	136	Faridpur.
4·7	+0·1	4·3	90·41	+8·10	3·93	VIII	107	+3·8	3·5	+1·6	35	28	28	54	45	58	15	36	64	9	9	13	45	64	57	14	21	123	Barisal.
5·5	+0·8	5·3	88·73	+22·67	4·13	VII	103	+6·0	...	...	36	36	40	49	51	46	29	44	34	14	7	19	58	63	36	14	19	155	Khulna.
3·8	−0·7	3·8	77·51	+11·48	4·73	IV	94	+6·0	3·0	+1·0	22	23	11	40	80	40	15	26	108	3	8	5	50	72	13	2	6	206	Jessore.
4·8	+1·3	5·0	99·15	+36·66	6·58	IX	112	+16·5	2·4	...	57	28	44	21	50	58	22	28	57	18	10	28	32	63	46	4	13	151	Satkhira.
4·7	+0·2	4·7	81·86	+19·32	5·78	VI	103	+17·8	2·7	−0·5	21	16	33	39	30	86	14	54	72	17	4	17	32	73	58	13	61	90	Calcutta.
6·0	...	5·9	108·23	+38·83	12·66	X	94	+14·4	9·9	+1·3	83	50	25	19	60	83	21	21	3	61	22	16	26	156	46	18	14	4	Sangor Island
4·5	−0·1	4·5	52·48	+11·59	3·44	VII	75	+19·3	...	...	74	37	13	15	37	116	41	17	15	55	21	12	20	52	125	19	19	42	Sandheads.
4·5	+1·4	5·0	70·07	+11·02	5·11	VIII	97	+16·7	2·5	+0·1	65	16	36	35	82	25	21	21	64	30	10	24	55	79	13	4	14	136	Midnapore.
4·3	−0·4	4·1	71·87	+13·24	3·43	VIII	96	+19·1	1·7	−0·3	24	4	8	77	43	20	20	70	99	17	1	5	76	24	9	12	31	190	Burdwan.
5·4	+1·2	5·5	66·25	+7·85	3·64	VIII	91	+12·8	2·7	...	18	20	30	48	53	61	15	29	91	3	11	10	57	37	41	3	7	186	Krishnagar.
4·0	0	4·3	54·11	−2·33	2·80	VII	91	+16·3	3·8	...	16	8	35	35	18	31	90	63	69	21	10	42	37	15	22	84	79	55	Asansol.
4·3	−0·4	4·2	75·23	+18·12	4·10	VIII	94	+16·8	2·4	+0·1	26	13	39	45	57	28	21	37	69	8	6	41	38	42	26	20	21	173	Berhampore.
4·5	+0·4	4·3	79·51	+8·54	7·13	IX	89	+3·7	2·0	+0·4	26	44	77	52	20	46	38	14	48	1	9	43	50	24	48	56	8	126	Bogra.
4·3	+1·3	4·0	48·46	−7·64	3·45	VIII	74	+5·1	3·7	...	36	18	68	35	60	28	32	48	40	32	18	48	36	40	15	39	89	47	Malda.
4·7	+0·5	4·1	89·70	+18·60	5·15	VI	77	−2·5	1·8	−0·6	21	40	82	25	23	17	26	10	121	3	17	52	19	13	17	59	12	173	Dinajpur.
4·3	+1·0	3·7	120·08	−2·24	8·85	VI	122	+13·8	1·3	−0·1	10	41	17	32	4	3	1	24	238	2	3	5	10	2	6	0	7	330	Jalpaigur.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of Bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity %		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Month.	Mean.	Departure from normal.	Lowest.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Orissa—																						
Balasore	65	29·731	−·012	29·641	87·9	−0·8	106	VI	70·7	+0·2	50	I	75·3	80·8	71·7	74·1	·745	0	·764	80	−1	72
Chandbali	20	29·782	0	29·691	87·7	−1·0	106	VI	71·3	−0·2	51	I	76·4	81·8	72·8	74·1	·781	...	·751	83	+2	68
Puri	20	29·779	+·004	29·692	...	...	...	...	75·0	+0·4	59	I	78·6	81·7	74·2	75·8	·804	−·017	·821	80	−3	75
Cuttack	87	29·719	+·002	29·621	90·4	−0·5	106	IV, VI	71·4	−1·1	54	I, II, XII	78·7	84·1	72·3	74·1	·753	+·003	·715	80	+1	62
Angul	455	29·341	+·006	29·239	88·7	−1·2	106	IV	69·7	+0·2	50	I	74·5	84·2	69·7	71·9	·679	−·014	·623	79	+3	55
Sambalpur	486	29·312	+·001	29·200	89·5	−1·0	106	IV, V, VI	68·9	−0·9	46	I	74·3	85·7	68·9	71·5	·650	−·004	·589	76	+5	50
Chota Nagpur—																						
Jamshedpur	423	29·359	...	...	89·3	...	108	VI	67·8	...	43	I	73·3	...	68·2	...	·630	...	...	77	...	...
Chaibasa	733	29·053	+·010	28·945	...	...	...	...	67·8	−0·2	45	I	74·2	83·0	68·7	72·3	·652	+·014	·661	76	−1	61
Ranchi	2,152	27·644	−·009	27·561	82·7	−1·5	101	VI	63·5	−2·0	41	I	71·8	77·2	63·8	65·5	·515	−·014	·503	63	−3	54
Hazaribagh	2,006	27·785	+·014	27·707	83·1	−1·5	102	VI	63·5	−2·2	36	I	71·3	77·6	64·1	65·7	·528	+·016	·513	66	+3	55
Daltonganj	725	29·065	+·008	28·955	87·4	−2·1	108	V, VI	65·9	+0·6	36	I	73·1	83·6	65·5	68·5	·568	−·019	·517	69	−4	45
Bihar—																						
Purnea	124	29·667	−·013	29·559	87·2	+0·7	104	V	65·5	−0·8	35	I	72·4	81·7	68·0	71·8	·663	+·054	·667	79	−6	62
Darbhanga	177	29·627	+·011	29·517	86·1	+0·1	106	V	66·4	−1·4	34	I	74·1	81·2	68·7	72·4	·666	−·016	·651	75	−5	60
Pusa	188	29·615	+·012	...	88·0	0	109	V	67·1	+1·4	40	I	73·2	..	68·5	...	·675	+·007	...	78	−1	...
Motihari	221	29·571	−·001	29·473	...	...	...	...	65·8	+0·8	38	I	72·2	82·2	67·6	71·2	·651	−·026	·638	79	−4	59
Patna	173	29·615	+·017	29·512	87·6	+0·3	110	V	68·8	+0·2	38	I	74·5	83·9	67·9	70·7	·629	−·027	·606	70	−2	52
Gaya	372	29·430	+·017	29·331	89·6	−0·1	111	V, VI	69·4	+0·5	43	I	70·2	85·2	67·4	70·5	·587	−·048	·567	63	−7	47
Naya Dumka	489	29·307	+·009	29·202	87·3	−0·4	109	VI	66·8	−1·0	40	I	73·7	80·8	67·9	69·7	·634	−·014	·597	73	0	57
Sabour	122	29·673	...	29·571	86·9	...	108	V	65·3	...	34	I	72·3	81·9	67·7	71·2	·656	...	·644	79	...	59
United Provinces East—																						
Gorakhpur	257	29·538	+·012	29·441	87·5	−0·2	109	V	66·2	−0·5	35	I	72·6	82·9	67·3	71·1	·637	−·003	·624	76	+1	57
Benares	250	29·533	−·001	29·432	88·9	−0·6	110	V, VI	66·9	+0·3	37	I	74·3	84·8	66·8	70·1	·595	−·026	·561	66	−5	48
Allahabad	309	29·472	−·002	29·370	89·5	−0·6	111	V, VI	66·4	−0·4	36	I	73·5	85·8	65·5	69·8	·559	−·017	·519	65	0	43
Fatehpur	375	29·414	...	29·305	89·0	...	111	V, VI	66·2	...	35	I	75·3	84·8	67·7	71·7	·618	...	·632	66	...	52
Cawnpore	416	29·363	−·001	29·277	89·6	−0·3	112	V, VI	66·1	−0·3	37	I	72·6	86·4	65·6	70·3	·583	+·014	·547	69	+3	44
Lucknow	371	29·412	+·002	29·308	88·9	−0·8	112	V	66·4	+0·7	36	I	72·2	85·3	65·9	70·0	·594	+·012	·553	71	+3	46
Bahraich	407	29·365	−·002	29·269	86·7	−1·4	109	V	65·3	−0·4	35	I	72·2	82·9	66·1	70·1	·600	−·018	·590	72	−1	52
Gonda	360	29·429	...	29·334	87·3	...	109	V	65·4	...	34	I	71·4	82·5	66·0	70·2	·602	...	·599	75	...	54
United Provinces West—																						
Jhansi	824	28·963	−·010	28·864	89·5	−1·7	113	V	66·3	−2·7	36	I	74·6	85·5	64·6	67·7	·512	−·017	·456	56	−2	38
Agra	554	29·225	−·006	29·131	87·9	−3·2	112	VI	63·0	−0·8	31	I	70·8	84·5	63·1	67·5	·524	+·021	·467	64	+5	39
Mainpuri	516	29·259	−·001	29·161	89·1	−1·0	113	VI	...	...	...	...	73·0	84·8	64·8	68·9	·552	+·008	·520	63	−2	43
Aligarh	615	29·175	...	29·080	86·6	...	111	V	...	...	...	...	71·1	83·6	63·5	68·3	·532	...	·514	64	...	43
Bareilly	568	29·223	+·020	29·133	87·2	−0·3	110	V, VI	65·1	+0·4	37	I	71·0	83·2	65·5	70·1	·595	+·011	·592	74	+1	51
Roorkee	899	28·881	+·006	28·792	84·0	−2·4	109	VI	61·9	−0·3	33	I	68·5	80·5	62·8	67·5	·538	+·019	·529	73	+2	50
Dehra Dun	2,239	27·555	+·000	...	80·5	−0·7	102	VI	59·2	−1·5	36	I	68·5	...	58·3	...	·458	−·014	...	72	+2	...
Punjab East and North—																						
Delhi	719	29·062	+·004	28·970	85·8	...	110	VI	64·1	...	37	I	71·0	83·0	63·7	68·4	·540	...	·533	65	...	46
Hansi	711	29·065	...	...	...	...	...	...	62·0	...	31	I	70·9	...	63·2	...	·531	...	...	64	..	...
Hissar	725	29·054	+·002	28·964	88·2	−3·1	112	V	62·5	−1·6	33	I	70·8	84·0	63·2	68·9	·534	+·045	·542	63	+3	43
Ambala	892	28·880	+·004	28·800	86·4	−1·5	112	VI	63·6	+0·9	32	I	68·8	81·7	62·0	66·6	·513	−·012	·477	68	−2	43
Patiala *	818	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ludhiana	812	28·977	+·018	28·893	86·5	−1·3	114	VI	62·3	−1·7	31	I	69·7	82·9	62·9	67·1	·528	+·029	·486	68	+3	42
Lahore	705	29·075	+·008	29·003	86·9	−2·7	115	V	62·2	+1·6	30	I	69·8	84·0	62·9	67·5	·531	+·043	·485	69	+7	40
Sialkot	830	28·951	+·009	28·879	84·7	−2·4	114	VI	61·9	−0·5	31	I	68·1	80·8	62·7	68·5	·549	+·034	·559	75	+5	52
Rawalpindi	1,674	28·119	+·005	28·047	83·5	−0·6	113	VI	58·1	+0·4	28	I	66·4	80·2	58·0	63·0	·422	−·026	·392	61	−4	36

*Data not available for the whole year.

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1933.

Cloud amount (tenths of sky.)			Rainfall, inches.				Number of rainy days. (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																	STATION.
											8 hrs. I. M. T.									17 hrs. I. S. T.									
Mean 8 hrs. I. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Orissa—
5·7	+2·1	6·5	78·89	+10·16	4·51	X	92	+14·0	4·3	+1·4	68	13	17	17	51	37	13	62	6	13	16	18	96	114	28	7	14	59	Balasore.
4·1	...	4·1	78·11	+17·13	5·25	VIII	86	+14·4	5·8	...	73	18	11	13	52	72	55	65	6	7	40	71	93	87	26	19	12	5	Chandbali.
4·3	+0·2	4·7	58·48	+3·92	3·20	VIII	62	+0·3	11·0	+2·6	105	55	5	2	45	85	36	14	18	21	20	19	50	128	99	18	2	8	Puri.
4·6	+0·1	5·5	59·86	+0·59	12·63	VIII	84	+9·1	2·5	+0·5	8	12	11	4	10	66	59	15	180	3	6	14	13	36	70	25	7	191	Cuttack.
4·7	+0·6	5·5	65·01	+17·18	4·82	VI	79	+6·7	3·1	−1·0	20	28	30	30	13	28	125	85	6	40	41	38	50	37	34	55	58	12	Angul.
5·0	+0·9	5·6	73·13	+7·40	5·00	VII	85	+11·1	3·0	+0·1	49	87	31	16	16	85	12	26	43	34	41	11	17	24	81	51	61	45	Sambalpur.
																													Chota Nagpur—
4·7	...	...	64·49	...	3·64	VIII	92	...	2·5	...	1	5	33	17	2	19	75	47	166	...	...	...	...	...	...	...	...	...	Jamshedpur.
5·5	1·8	5·9	65·87	+14·08	3·70	VII	86	+11·6	2·2	+0·6	9	19	26	4	15	118	28	8	138	10	21	38	19	17	67	31	24	133	Chaibasa.
4·5	+0·6	4·7	62·18	+4·97	1·91	V	96	+15·8	2·8	...	25	15	23	16	50	53	24	41	118	44	22	32	32	32	20	26	68	89	Ranchi.
4·4	+0·1	4·7	57·03	+3·75	3·81	VII	90	+14·8	6·1	...	17	18	26	33	37	55	67	32	30	64	20	30	32	19	11	41	142	6	Hazaribagh.
3·3	+0·5	3·5	43·94	−0·71	3·09	VIII	65	+3·5	2·8	+0·1	15	27	77	24	13	32	33	10	134	60	23	38	17	13	25	84	65	40	Daltonganj.
																													Bihar—
3·7	0	2·9	60·79	−1·49	5·20	VIII	73	+2·2	2·0	−0·1	12	43	100	8	1	61	39	4	97	7	23	87	7	5	33	58	11	134	Purnea.
3·9	+0·7	3·8	52·49	+2·22	3·93	VII	59	0	2·8	...	1	10	136	3	0	1	63	4	147	2	2	74	3	0	0	68	3	213	Darbhanga.
3·7	+0·4	...	55·50	+6·95	4·87	VII	61	+2·9	3·0	+0·3	10	37	95	28	16	66	44	8	60	...	...	...	...	...	...	...	...	...	Pusa.
4·1	+1·3	3·7	62·77	+7·91	7·05	VII	64	+5·1	3·1	...	9	37	111	31	18	22	48	24	65	9	22	61	26	12	22	56	47	110	Motihari.
3·9	+0·3	4·0	50·20	+1·67	3·30	VI	61	+5·0	3·5	+0·4	9	25	80	22	13	71	57	29	59	16	26	60	15	2	21	68	60	97	Patna.
3·3	+0·1	3·4	46·92	−0·56	3·31	VIII	68	+10·0	3·1	+0·5	5	36	47	64	46	123	27	8	9	45	48	38	17	13	68	57	60	19	Gaya.
3·9	+0·7	3·3	59·81	+2·72	3·33	VIII	95	+17·1	2·3	+0·6	3	5	5	3	1	2	0	9	332	0	4	3	3	1	1	4	19	330	Naya Dumka.
4·2	...	4·2	42·68	...	2·98	VIII	70	...	...	...	11	38	53	53	34	83	44	9	40	41	36	51	33	9	8	60	84	43	Sahour.
																													United Provinces, East—
3·9	+1·3	3·9	56·29	+0·10	5·10	VI	67	+10·4	2·2	...	3	22	121	16	7	22	63	15	96	4	18	67	10	8	10	66	33	144	Gorakhpur.
4·1	+0·5	4·1	33·19	−7·36	2·16	VIII	59	+6·3	5·3	+2·8	12	48	37	29	33	127	54	9	16	33	63	32	14	5	26	85	100	7	Benares.
4·0	+0·4	4·4	29·69	−0·37	2·28	VIII	49	0	5·0	+1·8	8	21	73	18	25	64	89	8	59	43	41	50	5	10	20	94	69	33	Allahabad.
2·9	...	3·2	38·14	...	5·00	VII	45	...	2·7	...	6	42	31	43	17	45	57	44	80	18	47	16	14	7	15	18	83	147	Fatehpur.
2·0	−0·2	2·1	30·78	−5·14	2·71	X	48	+3·5	2·0	−0·4	26	14	43	34	27	34	75	17	95	42	34	25	13	16	18	34	82	46	Cawnpore.
3·4	+0·3	3·5	25·00	−12·97	2·93	IX	48	−0·3	2·8	+0·9	14	15	81	15	16	38	62	31	93	15	20	53	10	12	39	58	53	105	Lucknow.
2·8	+0·4	2·6	47·90	+2·60	4·87	IX	61	+11·3	3·3	+1·2	10	4	124	6	8	19	72	14	108	13	0	84	2	11	20	63	28	144	Bahraich.
3·7	...	3·7	46·11	...	5·71	X	60	...	3·2	...	18	12	87	47	8	7	75	59	52	16	20	49	31	15	9	78	67	80	Gonda.
																													United Provinces, West—
3·8	+1·5	4·3	41·31	+5·14	2·95	VII	56	+9·4	2·3	−0·7	9	22	20	10	4	101	56	24	119	49	55	16	5	3	37	45	66	89	Jhansi.
3·6	+0·9	4·2	37·48	+10·58	3·34	VI	49	+11·0	4·0	+0·7	20	17	50	30	7	62	111	32	36	44	32	34	17	12	33	60	108	25	Agra.
4·0	+1·1	4·5	34·55	+7·48	3·23	VI	52	+13·4	2·6	+1·0	17	20	51	48	15	15	78	68	53	20	24	28	22	9	6	81	87	88	Mainpuri.
2·8	...	3·1	52·87	...	5·08	VI	56	...	4·3	...	56	22	37	38	25	25	76	42	44	78	23	28	20	17	22	42	91	44	Aligarh.
3·3	+0·2	3·7	49·49	+5·82	6·44	VIII	56	+9·7	2·2	+0·4	16	15	74	40	3	32	44	41	100	13	14	32	24	4	22	90	66	100	Bareilly.
4·0	+1·2	4·0	44·87	+2·89	5·16	VII	60	+12·3	2·6	+0·7	7	19	6	132	3	9	0	67	122	4	11	14	55	4	15	0	162	100	Roorkee.
4·9	+1·0	...	109·42	+26·26	8·40	VIII	89	+8·7	1·4	−0·1	28	63	17	17	2	20	25	10	183	...	...	...	...	...	...	...	...	...	Dehra Dun.
																													Punjab, East and North—
3·8	+0·9	4·5	60·36	+33·52	7·02	VIII	54	+18·0	2·9	+0·2	8	12	37	31	12	59	84	27	95	10	13	35	26	2	10	95	84	90	Delhi.
2·9	...	...	28·45	...	0·46	IX	43	...	...	...	23	33	13	31	17	25	46	9	168	...	...	...	...	...	...	...	...	...	Hansi.
2·8	+0·3	3·3	24·94	+10·47	2·94	IX	38	+14·2	3·7	+0·2	22	17	38	51	33	61	52	29	62	71	28	35	25	16	21	41	69	59	Hisar.
4·3	+1·4	4·3	80·62	+50·13	7·57	IX	59	+16·6	3·0	+0·6	24	4	52	67	2	7	30	54	125	21	10	24	39	7	5	79	100	80	Ambala.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Patiala.*
3·5	+0·8	2·7	36·07	+7·36	6·14	VIII	49	+11·7	1·7	+0·4	8	28	22	46	31	22	29	33	146	14	24	14	13	12	10	21	64	193	Ludhiana.
3·9	+1·3	3·8	19·60	−0·02	2·16	VIII	31	+2·9	1·5	−0·2	20	20	24	53	20	6	13	33	176	19	18	17	22	14	6	20	46	203	Lahore.
3·3	+0·9	3·0	40·09	+9·07	3·06	VII	53	+12·5	1·8	+0·3	36	55	42	49	21	7	2	45	108	15	24	15	28	13	24	17	54	175	Sialkot.
3·7	+0·5	3·9	36·66	+1·89	2·81	VII	46	−2·2	2·1	+0·4	5	18	7	24	7	6	10	12	276	14	20	4	38	17	25	56	64	127	Rawalpindi.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity, %.		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. L. S. T.	Mean.	Departure from normal.	Highest.	Month.	Mean.	Departure from normal.	Lowest.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. L. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. L. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. L. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. L. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Punjab Southwest—																						
Khushab	612	29·164	−·007	29·085	87·7	−1·8	116	VI	63·5	−0·2	31	I	70·0	85·9	60·8	66·6	·472	+·017	·431	57	+2	32
Lyallpur	605	29·167	+·006	...	87·6	−1·0	113	V, VI	63·1	+1·0	30	I	71·3	...	62·3	...	·494	+·012	...	59	−4	...
Montgomery	558	29·211	−·002	29·130	88·4	−2·7	115	V, VI	64·0	−0·2	31	I	70·0	86·1	62·7	...	·519	+·024	...	66	+7	...
Multan	426	29·349	+·003	29·264	91·6	−0·1	119	VI	66·1	+0·2	34	I	72·9	88·5	64·3	70·5	·543	+·024	·540	61	+1	39
Bahawalpur	384	29·398	...	...	90·7	...	116	V	63·8	...	31	I	71·9	...	62·9	...	·516	...	...	60	...	...
Khanpur	297	29·498	...	29·397	93·0	...	118	VI	64·0	...	29	I	71·6	90·9	62·6	68·9	·504	...	·441	59	...	28
Kashmir—																						
Srinagar	5,204	24·857	+·002	24·779	67·5	−0·2	99	VII	44·5	+0·8	14	I	50·4	63·5	47·9	54·0	·348	+·005	·343	86	−1	56
Gulmarg*	8,569	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Muzaffarabad	2,343	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dras	10,059	20·786	+·015	...	47·5	−1·9	85	VII	22·6	+1·6	−31	I	31·0	...	27·6	...	·162	−·007	...	73	−3	...
Leh	11,503	19·680	+·007	...	53·8	−1·6	84	VII	29·1	−0·5	−15	I	35·8	...	30·7	...	·161	+·029	...	87	+16	...
Skardu	7,505	22·838	−·007	...	62·9	+0·3	100	VII, VIII	41·0	+0·5	−1	I	48·0	...	41·2	...	·223	+·005	...	66	0	...
Gilgit	4,899	...	...	...	71·5	−1·5	105	VII	52·7	+0·4	22	I	57·7	...	50·1	...	·320	+·041	...	58	+6	...
N.W.F. Province—																						
Peshawar	1,164	28·635	—008	28·544	85·1	+0·4	116	VI	60·9	+0·6	30	I	68·5	82·0	59·7	65·3	·449	−·005	·441	59	+7	38
Miranshah	3,040	26·561	...	...	80·0	...	110	VI	58·5	...	28		66·7	...	54·6	...	·327	...	...	44	...	...
D. I. Khan	570	29·221	+·019	29·127	89·1	−0·6	118	VI	61·9	−0·7	29	I	71·0	85·8	62·5	69·8	·518	−·004	·554	60	−5	41
†Baluchistan—																						
Fort Sandeman	4,614	25·340	−·005	25·267	78·7	−1·8	111	VII	53·1	−0·3	22	I	57·6	70·3	48·7	54·2	·286	−·009	·187	51	−3	19
Sibi	441	29·325	...	...	93·6	...	119	VI, VII	67·5	...	33	I	75·7	...	62·6	...	·447	...	...	45	...	...
Quetta	5,495	24·632	−·030	24·573	74·5	+1·1	103	VI, VII	46·1	−1·0	17	I	52·1	72·1	44·4	50·8	·242	+·010	·159	56	+11	21
Chaman	4,911	25·606	−·026	25·554	78·5	+0·3	107	VI, VII	56·3	+1·8	24	I	62·1	76·2	50·1	56·8	·249	+·008	·263	45	+1	31
Kalat	6,495	23·687	−·007	...	71·1	−1·8	99	VI	40·7	+3·5	11	I	48·3	...	42·5	...	·249	+·015	...	65	+10	...
Dalbandin	2,772	26·998	−·044	26·956	86·9	−0·7	115	VI	54·4	−0·2	24	II	62·3	85·1	51·4	64·2	·273	+·022	·367	49	+4	31
Nokkundi*	2,282	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Las Bela	292	29·519	...	29·407	93·7	...	113	V	64·5	...	31	I	75·5	90·8	68·4	74·2	·637	...	·652	67	...	42
Sind—																						
Jacobabad	186	29·581	−·008	29·475	93·8	−1·9	119	V, VI	67·2	+1·5	34	I	74·9	92·1	64·5	70·2	·522	−·018	·478	55	−3	30
Sukkur	221	29·558	...	...	91·9	...	116	V, VI	67·1	...	36	I	71·6	...	64·2	...	·542	...	...	64	...	...
Chhor	19	29·779	...	29·669	95·7	...	112	IV	65·1	...	35	I	75·8	92·1	68·3	75·4	·647	...	·688	65	...	43
Hyderabad	96	29·704	+·009	29·610	92·8	−0·5	111	V	69·2	+1·0	41	I	75·9	90·4	66·0	69·6	·546	+·001	·474	56	−4	31
Manora (Karachi)	13	29·799	−·008	29·720	84·0	−0·2	98	IX	72·0	+0·6	51	I	75·8	82·3	70·1	73·9	·690	+·005	·742	73	−1	65
Badin	36	29·767	...	...	92·3	...	109	IV	67·9	...	40	I	75·0	...	67·4	...	·605	...	...	65	...	...
Naushahro	135	...	...	...	95·5	...	120	V	...	...	...	...	...	...	...	...	..	...	...	..	...	...
Rajputana West—																						
Bikaner	762	29·033	+·028	28·933	90·1	−2·0	112	V, VI	67·1	−1·8	34	I	72·6	88·9	61·4	66·0	·444	−·048	·372	49	−4	27
Jodhpur	780	29·011	−·007	28·909	91·3	−1·1	111	V	67·9	+0·1	40	I	73·8	89·3	63·3	68·1	·479	+·035	·427	52	+4	30
Barmer	631	29·145	...	29·041	...	...	...	...	68·0	...	40	I	73·7	89·5	65·6	72·1	·555	...	566	62	...	41
Rajputana East—																						
Jaipur	1,421	28·373	+·001	28·284	88·5	−1·6	114	V	64·2	−0·2	35	I	73·8	84·8	63·5	66·7	·467	+·014	·442	55	+2	36
Ajmer	1,611	28·196	−·004	28·106	86·3	−2·2	107	V	63·9	−1·3	33	I	71·1	83·0	61·5	65·6	·458	−·035	·428	55	−7	37
Kotah	843	28·961	0	28·853	90·1	−2·0	113	V	66·1	−1·9	37	I	75·5	87·4	65·2	69·3	·522	+·047	·488	56	+3	38
Jhalrapatan	1,053	28·745	...	28·641	87·6	...	111	V	65·7	...	39	I	73·3	85·6	64·9	69·4	·544	...	·523	62	...	43

* Data not available for the whole year.
† Stations in Baluchistan excluding Sibi and Las Bela record observations at 7 hrs. (L. M. T.)

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1933.

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days. (0·10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from																	STATION.
											8 hrs. L. M. T.									17 hrs. I. S. T.									
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Punjab, South West—
2·6	+0·3	3·3	21·43	+6·54	2·90	VIII	25	+1·1	4·8	+0·9	26	99	73	17	29	34	17	13	57	21	53	89	61	55	34	31	10	11	Khushab.
3·3	—0·2	...	14·57	+1·39	3·49	VIII	26	+3·5	2·5	+0·4	11	44	42	51	17	63	8	34	95	...	...	...	...	...	...	...	...	...	Lyallpur.
1·7	—0·4	2·1	13·39	+2·83	1·60	VIII	24	+5·9	2·1	—2·2	8	31	27	53	34	31	9	34	138	21	32	31	24	15	42	23	66	106	Montgomery.
2·6	—0·9	3·0	6·74	—0·46	1·95	IX	15	+2·2	2·8	+1·4	61	29	10	36	98	27	7	31	66	62	38	18	27	97	34	13	21	55	Multan.
1·6	...	...	4·89	—0·96	2·15	VIII	10	+0·7	3·2	...	25	54	37	40	29	87	22	7	64	...	...	...	...	...	...	...	...	...	Bahawalpur.
1·8	...	2·1	7·60	+0·95	2·41	VII	12	+2·7	5·6	...	72	37	45	6	34	113	14	7	37	71	16	25	5	17	85	56	23	47	Khanpur.
																													Kashmir—
5·4	+0·8	5·3	28·42	+2·55	1·80	III	65	+6·4	2·4	0	21	12	18	51	26	18	26	42	151	38	19	6	18	24	10	48	68	138	Srinagar.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Gulmarg.*
3·4	+0·1	...	54·37	+2·19	3·45	VII	77	—1·0	2·2	+0·8	8	6	2	28	144	119	0	0	57	...	...	...	...	...	...	...	...	...	Muzaffarabad.
4·6	+0·6	...	27·43	+5·91	2·15	III	56	+0·9	3·0	+0·4	0	3	0	1	0	7	2	8	344	...	...	...	...	...	...	...	...	...	Dras.
5·2	+0·5	...	9·07	+5·89	2·02	VIII	25	+15·4	1·7	0	24	19	15	9	69	14	9	1	205	...	...	...	...	...	...	...	...	...	Leh.
4·9	+0·4	...	4·31	—2·65	0·68	III	11	—7·4	5·0	+1·4	0	1	48	34	29	29	5	1	213	...	...	...	...	...	...	...	...	...	Skardu.
5·2	+0·6	...	2·99	—1·82	0·55	III	10	—5·2	0·4	—0·8	0	0	0	0	1	5	2	1	356	...	...	...	...	...	...	...	...	...	Gilgit.
																													N. W. F. Province—
4·3	+0·5	5·1	14·03	+0·52	1·60	VIII	28	+2·1	2·5	+0·6	71	20	25	28	71	29	12	33	76	71	93	54	23	23	10	5	21	65	Peshawar.
2·7	...	...	10·84	...	0·99	V	25	...	5·5	...	39	33	71	59	15	43	44	47	14	...	...	...	...	...	...	...	...	...	Miranshah.
2·8	+0·7	3·5	8·90	—0·19	1·92	VII	17	+0·7	1·7	+0·4	68	57	42	31	13	11	13	31	99	25	32	51	60	37	16	3	14	127	D. I. Khan.
																													†Baluchistan—
2·5	+0·6	4·4	8·28	—2·67	1·73	VIII	23	—1·7	1·8	—0·4	2	4	3	0	3	2	2	0	349	7	7	22	10	16	16	31	9	247	Fort Sandeman.
2·6	...	...	3·94	...	1·50	VII	11	...	4·1	...	34	28	26	35	38	26	14	23	141	...	...	...	...	...	...	...	...	...	Sibi.
3·3	+1·4	4·5	9·96	+0·21	1·25	VII	28	—1·2	3·8	...	0	3	5	54	116	10	6	3	163	26	10	5	6	45	27	91	106	49	Quetta.
2·5	+0·4	3·2	5·55	—1·87	0·57	I	19	—0·4	3·3	...	0	3	32	57	36	16	10	4	207	20	9	5	5	14	54	97	73	88	Chaman.
2·5	+0·7	...	8·71	+2·07	0·95	I	27	+8·9	5·3	+0·7	0	4	19	53	130	103	9	13	34	...	...	...	...	...	...	...	...	...	Kalat.
2·0	+0·1	2·7	4·94	+1·22	1·25	III	13	+3·8	5·1	+1·0	33	91	57	22	90	30	27	19	67	18	32	45	43	62	92	42	20	11	Dalbandin.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nokkundi.*
2·2	...	1·7	13·02	...	3·25	IX	18	...	2·6	...	59	5	2	1	4	3	2	44	243	9	2	13	29	131	90	4	3	78	Las Bela.
																													Sind—
1·0	—0·7	1·2	5·71	+2·03	3·10	VII	5	—2·5	2·5	0	13	2[9]	44	78	28	6	0	15	154	12	18	19	87	41	26	7	25	130	Jacobabad.
1·0	...	...	5·84	...	5·50	VIII	2	...	4·0	...	3	8[9]	13	96	76	16	0	9	63	...	...	...	...	...	...	...	...	...	Sukkur.
2·6	...	2·3	3·10	...	0·61	III	10	...	2·3	...	53	56	16	5	96	89	26	8	16	55	21	9	3	86	102	59	25	5	Chhor.
2·7	+0·7	2·7	8·60	+1·48	3·98	VII	13	+3·4	...	...	101	21	5	3	57	102	47	9	20	98	29	8	6	73	97	28	14	12	Hyderabad.
4·1	+0·5	3·5	20·11	+12·55	7·12	VII	13	+3·7	9·8	+0·9	42	88	12	0	0	51	131	31	10	4	17	5	8	13	194	118	5	1	Manora (Karachi)
3·2	...	...	14·69	...	4·17	VIII	15	...	6·4	...	27	59	15	0	16	88	98	13	49	...	...	...	...	...	...	...	...	...	Badin.
...	...	...	6·87	...	1·50	IX	9	...	2·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Naushahro.
																													Rajputana, West—
2·3	+0·1	3·0	17·81	+5·52	4·75	VIII	23	+3·5	6·4	+1·9	15	32	63	74	46	98	27	4	6	52	42	15	19	21	80	74	55	7	Bikaner.
3·7	+0·6	4·1	24·69	+11·07	5·97	VIII	33	+14·1	5·2	+1·6	25	113	19	8	15	112	19	4	50	32	63	20	8	29	123	35	14	41	Jodhpur.
3·1	...	3·3	14·28	...	2·17	VI	27	...	4·8	...	31	12	2	6	27	68	41	100	78	24	53	12	23	33	81	48	40	51	Barmer.
																													Rajputana, East—
2·9	—0·2	3·3	39·21	+15·00	2·95	VI	52	+16·3	2·5	—1·8	21	51	61	7	8	22	49	19	127	32	23	25	8	17	43	84	64	69	Jaipur.
3·8	+1·1	4·3	35·33	+14·68	6·15	VIII	50	+20·0	3·6	—0·2	4	23	10	13	7	52	64	5	187	19	24	8	5	12	63	79	31	124	Ajmer.
4·2	+1·7	4·3	29·96	+1·73	3·20	IX	46	+13·2	1·5	—1·2	13	19	6	16	7	42	80	59	123	23	20	9	7	1	51	50	63	141	Kotah.
3·4	...	3·7	55·42	...	3·79	VI	56	...	3·1	...	26	21	13	15	7	40	75	25	143	44	52	10	2	1	42	72	39	103	Jhalrapatan.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of barometer above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches. Mean 8 hrs. L. M. T.	Pressure reduced to 32°F and standard gravity, inches. Departure from normal.	Pressure reduced to 32°F and standard gravity, inches. Mean 17 hrs. I. S. T.	Maximum temperature °F. Mean.	Maximum temperature °F. Departure from normal.	Maximum temperature °F. Highest.	Maximum temperature °F. Month.	Minimum temperature °F. Mean.	Minimum temperature °F. Departure from normal.	Minimum temperature °F. Lowest.	Minimum temperature °F. Month.	Dry bulb temperature. °F. Mean 8 hrs. L. M. T.	Dry bulb temperature. °F. Mean 17 hrs. I. S. T.	Wet bulb temperature °F. Mean 8 hrs. L. M. T.	Wet bulb temperature °F. Mean 17 hrs. I. S. T.	Vapour pressure, inches. Mean 8 hrs. L. M. T.	Vapour pressure, inches. Departure from normal.	Vapour pressure, inches. Mean 17 hrs. I. S. T.	Relative humidity, %. Mean 8 hrs. L. M. T.	Relative humidity, %. Departure from normal.	Relative humidity, %. Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Gujarat—																						
Deesa	466	29·335	—·017	29·238	94·9	+0·7	111	IV, V	66·7	—0·2	38	I	78·3	91·1	66·9	71·8	·538	+·007	·556	52	—5	36
Bhuj	343	29·452	—·021	29·359	90·1	—1·0	106	IV	68·7	+0·3	44	I	75·1	87·9	66·6	68·9	·571	—·056	·472	61	—6	36
Dwarka	37	29·786	—·016	29·706	84·8	+0·4	99	X	73·7	+0·8	53	I	78·0	81·9	71·6	73·0	·706	—·031	·712	72	—5	64
Jamnagar	53	29·746	—·036	...	89·7	+0·2	102	VI	67·6	—0·3	41	I	77·8	...	...	...	...	...	...	...	...	...
Rajkot	432	29·373	—·018	29·267	92·0	—0·9	108	IV	67·3	+1·2	42	I	74·0	89·6	66·5	69·3	·588	—·012	·460	65	0	34
Veraval	19	29·814	—·001	29·726	86·8	+2·0	101	III	71·8	+0·5	51	I	78·0	82·1	70·1	75·6	·656	—·015	·804	66	—5	73
Surat	39	29·785	—·014	29·683	92·1	+0·6	108	IV	71·2	+1·3	49	I	76·3	86·8	69·7	74·3	·658	—·017	·683	71	+1	50
Bhavnagar	55	29·773	—·010	...	92·4	—1·2	108	IV	69·2	0	44	I	76·3	...	67·0	...	·574	—·039	...	59	—5	...
Ahmadabad	163	29·658	—·011	29·565	92·7	—1·9	107	IV	71·5	+0·9	50	I	77·6	90·0	67·8	70·8	·576	0	·519	58	—1	38
Dohad	1,009	28·812	...	...	90·6	...	110	IV	66·7	...	42	I	73·1	...	67·1	...	·614	...	...	72	...	..
Baroda	114	29·716	...	29·601	92·6	...	110	IV	67·1	...	41	I	74·8	89·7	68·9	73·1	·659	...	·601	73	...	45
Central India West—																						
Neemuch	1,626	28·186	—·008	28·091	87·3	—1·5	108	VI	64·4	—0·1	36	I	73·4	82·9	63·6	66·6	·490	—·005	·450	57	—1	42
Indore	1,823	27·984	—·016	27·887	87·2	—1·0	105	V	63·9	0	38	I	72·8	84·4	63·3	65·9	·477	—·044	·403	58	—4	37
Bhopal	1,843	28·169	...	28·070	88·3	...	107	V	64·7	...	40	I	73·1	84·9	63·7	67·7	·488	...	·464	59	...	41
Guna	1,571	28·216	...	28·126	87·7	...	110	V	63·1	...	33	I	70·8	84·2	62·8	68·7	·498	...	·512	64	...	45
Central India East—																						
Nowgong	750	29·040	+·004	28·947	89·9	+0·6	113	V	64·0	—1·6	31	I	72·1	85·5	64·7	68·9	·551	+·016	·507	68	+3	43
Sutna	1,041	28·739	+·003	28·643	88·8	+0·8	110	VI	64·7	—1·2	38	I	72·5	84·4	64·4	68·2	·533	+·010	·491	63	+1	43
Umaria	1,500	28·290	...	28·191	87·1	...	109	V	63·6	...	32	I	72·4	82·1	64·8	68·5	·542	...	·538	65	...	49
Berar—																						
Akola	925	28·885	—·006	28·754	92·1	—1·1	110	IV	68·6	+1·2	49	I, XII	76·2	89·3	66·5	70·4	·537	+·032	·495	59	+3	39
Amraoti	1,213	28·582	—·014	...	90·9	—1·2	108	V, VI	70·3	+1·1	54	I, XII	76·3	...	65·6	...	·506	—·012	...	56	—1	...
Central Provinces West—																						
Khandwa	1,044	28·752	—·019	...	92·2	+0·1	110	IV	67·1	0	43	I	75·0	...	65·5	...	·525	+·026	...	58	0	...
Hoshangabad	992	28·820	—·002	...	89·5	—0·8	108	V	68·1	+2·6	47	I	75·0	...	65·8	...	·529	+·026	...	60	+1	...
Saugor	1,808	27·976	—·015	27·886	86·9	—1·0	108	V	66·4	—0·1	42	I	73·4	83·0	62·8	66·1	·455	—·010	·432	54	—1	41
Jubbulpore	1,289	28·507	+·008	28·392	87·6	...	105	V	63·6	...	35	I	71·7	83·4	64·7	68·6	·547	...	·511	66	...	47
Seoni	2,033	27·776	—·003	...	86·1	—1·5	104	V	65·0	+0·4	46	I, XII	73·3	...	64·9	...	·522	+·026	...	65	+2	...
Nagpur	1,017	28·782	—·002	28·665	91·0	—1·0	108	V	68·1	—0·7	49	I	74·7	86·9	66·3	70·4	·553	+·022	·527	63	+4	44
Central Provinces East—																						
Pendra	2,040	27·765	+·003	27·662	83·5	—0·2	102	V, VI	64·1	+0·1	39	I	71·3	79·0	64·4	67·4	·533	+·040	·540	68	+7	56
Raipur	970	28·808	—·012	28·715	89·3	—0·9	107	V	68·5	—0·6	49	I	75·0	85·2	67·8	71·4	·604	+·040	·593	69	+5	51
Kanker	1,300	28·485	...	28·385	87·8	...	103	IV	66·6	...	44	I	73·3	83·8	67·8	71·4	·622	...	·611	75	...	55
Chanda	634	29·166	—·010	29·047	90·3	—2·5	108	V	69·1	+0·5	49	XII	76·2	86·3	69·8	75·4	·654	+·061	·738	73	+6	61
Jagdalpur	1,813	27·977	—·021	27·881	87·1	—0·5	103	IV	66·0	+0·2	46	I, XII	72·3	81·6	67·4	69·2	·617	—·003	·560	78	+2	56
Konkan—																						
Bombay	87	29·792	—·018	29·702	87·7	+1·1	100	III	74·7	+1·1	57	I	78·6	83·3	78·5	75·5	·757	—·011	·778	77	—1	69
Alibag	23	29·814	...	...	86·0	...	101	III	72·9	...	55	I	78·4	...	73·0	...	·748	...	...	76	...	...
Ratnagiri	207	29·628	—·011	...	86·2	—1·0	96	VI	73·5	+0·3	57	I	80·3	...	72·5	...	·699	—·018	...	68	—4	...
Marmagao	202	29·633	—·014	...	85·3	...	93	I, II	74·5	...	65	I, II	78·4	...	73·8	...	·769	...	...	79	...	...
Karwar	44	29·803	—·011	...	86·3	+0·2	94	IV	72·3	—0·4	60	I, XII	75·5	...	72·9	...	·776	+·021	...	88	+4	...

S HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1933.

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days. (0·10" or more.)		Wind velocity miles per hour		Wind direction—Number of winds from																				STATION.
											8 hrs. L. M. T.									17 hrs. I. S. T.											
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																														Gujarat—
3·8	+0·5	3·8	38·96	+14·26	5·53	VIII	36	+7·3	6·1	—1·1	19	68	64	14	29	64	34	17	47	45	24	13	8	39	88	68	51	20	Deesa.
3·1	0	3·2	27·12	+12·73	7·76	V	23	+6·7	4·9	2·7	10	10	9	2	5	85	77	28	139	60	39	16	8	4	123	6	36	22	Bhuj.
4·5	+1·1	3·9	37·01	+23·49	11·90	VIII	27	+10·4	10·4	+0·7	81	59	16	7	6	64	85	43	0	27	25	8	1	6	70	119	109	0	Dwarka.
4·3	+2·1	...	30·63	+10·57	3·65	V	26	+4·8	6·7	—3·0	39	14	6	38	65	69	72	62	0	...	...	...	...	...	...	...	...	...	Jamnagar.
4·2	+0·8	4·2	29·33	+3·04	3·88	VII	30	—1·2	7·0	+0·1	24	23	15	6	8	72	83	41	93	40	54	9	3	9	64	95	75	16	Rajkot.
4·0	+0·5	3·6	52·19	+33·39	10·63	VIII	33	+7·7	7·3	+0·3	76	55	11	9	8	26	76	49	55	3	7	2	13	28	47	177	86	2	Veraval.
4·9	+1·4	4·3	53·36	+12·39	9·01	VIII	47	+0·3	4·1	—0·5	30	47	42	19	50	62	37	22	56	16	22	17	7	71	94	72	56	10	Surat.
4·2	+0·8	...	28·66	+7·46	3·44	V	86	+6·8	4·1	—1·3	78	3	8	0	10	41	130	49	46	...	...	...	...	...	...	...	...	...	Bhavnagar.
4·0	+0·7	3·5	42·99	+14·16	5·08	VIII	40	+5·0	4·3	+0·5	33	68	43	10	12	59	71	48	21	40	32	17	5	21	70	78	70	32	Ahmadabad.
4·3	...	...	45·03	...	11·63	VIII	54	...	4·8	...	15	66	14	36	25	83	59	9	58	...	...	...	...	...	...	...	...	...	Dohad.
3·1	...	2·8	56·87	...	7·21	VIII	55	...	3·8	...	38	23	11	18	74	67	42	24	68	40	26	9	10	98	70	69	40	32	Baroda.
																														Central India, West—
3·5	+0·6	1·5	52·79	+23·60	6·80	VI	49	+12·8	5·8	—0·3	11	101	28	11	2	45	88	16	63	19	99	13	1	5	88	30	25	35	Neemuch.
3·2	—0·5	3·6	53·35	+20·23	5·38	IX	43	—2·8	4·9	+0·8	12	43	33	42	7	35	85	53	55	18	64	12	10	7	67	97	65	25	Indore.
3·5	...	4·1	54·02	...	3·65	VII	64	...	3·6	...	14	32	32	20	14	30	87	31	105	13	53	33	11	8	33	108	62	42	Bhopal.
3·1	...	3·6	59·44	...	4·72	VI	68	...	3·5	...	1	35	45	5	21	32	85	2	139	4	27	37	1	18	27	124	14	117	Guna.
																														Central India, East—
4·1	+0·4	4·8	35·74	—7·00	3·62	X	56	+8·0	2·2	+0·3	14	25	21	13	27	98	38	23	106	49	45	22	5	13	44	42	64	81	Newgong.
3·9	+0·3	4·7	38·95	—5·82	2·55	IX	61	+6·1	3·3	—0·3	14	13	41	32	33	56	48	20	108	81	25	18	8	14	39	45	92	43	Satna.
3·5	...	3·9	59·08	...	4·98	IX	78	...	2·9	...	21	19	30	38	34	42	70	33	78	61	33	16	15	14	30	63	71	62	Umaria.
																														Berar—
2·6	—1·3	3·6	39·83	+8·48	2·51	IX	55	+9·6	4·1	—0·4	4	22	16	10	4	9	115	28	147	10	24	4	9	6	8	89	55	160	Akola.
4·4	+0·9	...	33·04	—0·01	9·25	IX	69	+21·4	6·9	+2·5	6	100	55	19	15	44	104	7	9	...	..	...	...	...	...	...	...	...	Amraoti.
																														Central Provinces West—
2·6	—0·7	...	40·84	+11·21	4·00	VII	55	+13·6	5·3	...	15	48	26	13	29	38	115	29	52	...	...	...	...	...	...	...	...	...	Khandwa.
3·5	0	...	54·01	+5·18	4·30	VIII	69	+13·7	2·6	+0·2	8	32	84	33	18	55	54	12	69	...	...	...	...	...	...	...	...	...	Hoshangabad
3·6	+0·4	4·0	48·48	+3·53	6·08	IX	66	+10·1	4·2	+0·3	13	40	41	37	19	36	65	41	73	49	59	14	7	6	24	69	70	67	Saugor.
4·2	+0·9	5·0	64·61	+9·50	5·64	IX	76	+12·3	3·6	+1·5	13	11	10	80	75	37	53	18	68	49	52	24	12	31	35	82	26	79	Jubbulpore.
3·7	+0·4	...	43·23	—9·99	3·73	VII	90	+19·8	3·3	+0·3	21	19	13	5	20	18	28	13	228	...	...	...	...	...	...	...	...	...	Seoni.
4·7	+1·0	6·0	76·04	+27·07	6·21	IX	85	+22·2	3·4	—0·5	36	47	70	20	8	6	86	55	37	39	11	67	10	9	8	112	22	77	Nagpur.
																														Central Provinces East—
4·1	+0·8	5·4	63·21	+13·15	5·31	IX	109	+26·5	3·0	—0·5	45	25	6	25	48	27	9	49	131	40	24	4	19	48	50	14	31	135	Pendra.
3·9	+0·2	3·9	70·20	+19·37	5·50	VIII	80	+16·7	2·7	—1·4	7	14	12	2	5	17	24	3	281	4	6	5	2	4	10	20	2	312	Raipur.
5·0	...	5·9	64·46	...	4·24	IX	79	...	4·0	...	12	13	19	25	19	55	63	19	140	34	32	21	15	12	61	73	29	88	Kanker.
3·8	—0·4	3·9	76·40	+24·50	6·15	VIII	93	+30·5	3·7	+0·9	23	25	33	44	33	50	55	32	70	29	46	48	40	33	39	39	19	81	Chanda.
5·7	+1·6	7·2	64·25	+0·45	4·65	VII	89	+6·6	2·6	...	8	11	3	2	43	43	51	9	200	14	25	4	6	45	29	47	8	187	Jagdalpur.
																														Konkan—
4·1	—0·2	3·9	62·37	—8·26	6·08	VIII	74	+1·5	6·9	—3·6	36	60	61	47	15	27	39	79	1	80	7	12	9	1	20	66	170	0	Bombay
4·5	...	...	78·63	...	7·20	IX	79	...	8·4	...	24	88	45	34	28	56	23	19	43	...	...	...	...	...	...	...	...	...	Alibag.
2·4	—1·5	...	123·60	+23·03	6·11	VII	107	+14·3	4·1	—2·5	47	15	56	22	10	34	32	21	128	...	...	...	...	...	...	...	...	...	Ratnagiri.
6·1	...	...	125·05	...	12·09	V	108	...	8·4	...	40	60	97	38	25	55	31	17	2	...	...	...	...	...	...	...	...	...	Marmagao.
4·8	+0·9	...	169·82	+49·70	9·61	VII	129	+24·8	2·5	—0·3	11	57	9	14	2	87	0	92	102	...	...	...	...	...	...	...	...	...	Karwar.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity %.		
		Mean 8 hrs. I. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Month.	Mean.	Departure from normal.	Lowest.	Month.	Mean 8 hrs. I. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bombay Deccan—																						
Malegaon	1,430	28·397	—·001	28·286	91·6	—0·6	108	IV	64·7	—0·6	38	I	75·4	87·7	65·2	69·5	·506	—·006	·482	56	—1	40
Ahmadnagar	2,154	27·687	—·012	...	88·7	—0·9	104	IV	65·7	+1·7	46	I, XII	73·5	...	64·0	...	·485	—·019	...	59	—1	...
Poona	1,834	28·005	—·008	27·898	88·3	—1 1	106	IV	64·1	—0·6	40	I	72·3	84.4	65·2	68·3	·543	+·022	·490	68	+1	41
Satara	2,320	27·540	...	27·445	...	...	...	...	66·1	...	35	I	72·9	81.9	64·1	67·3	·495	...	·485	61	...	47
Sholapur	1,570	28·258	—·006	...	91·1	—0·3	105	IV	68·5	+0·2	51	XII	75·6	...	66·6	...	·542	+·043	...	62	+7	...
Miraj	1,824	28·037	...	...	88·1	...	103	IV	66·4	...	48	I	73·9	...	66·1	...	·548	...	...	65	...	...
Bijapur	1,950	27·892	—·003	...	88·8	—1·8	102	IV	67·6	0	52	I, XII	74·9	...	66·7	...	·558	—·008	...	64	—1	...
Belgaum	2,562	27·301	—·004	...	84·4	—0·2	99	IV	64·2	+0·1	47	I	70·3	...	65·0	...	·556	+·016	...	73	+2	...
Gadag	2,131	27·721	...	...	88·0	...	102	IV, V	67·8	...	55	XII	73·0	...	67·1	...	·592	...	...	73	...	...
Hyderabad, North—																						
Aurangabad	1,905	27·940	—·011	...	89·3	—1·3	105	IV	66·9	+0·8	50	XII	74·1	...	64·7	...	·498	+·013	...	59	+4	...
Nizamabad	1,248	28·565	—·003	...	90·5	—1·5	106	IV, V	69·3	+0·7	50	XII	75·7	...	68·5	...	·610	+·016	...	69	+5	...
Hyderabad, South—																						
Gulbarga	1,503	28·331	+·002	...	90·6	—2·2	105	IV, V	69·1	0	50	XII	76·0	...	67·2	...	·558	—·009	...	63	0	...
Raichur	1,311	28·630	+·010	...	90·2	—2·2	105	IV	70·8	—1·0	57	XII	77·1	...	70·1	...	·648	+·042	...	68	+4	...
Hyderabad	1,709	28·115	+·005	...	87·4	—3·0	103	IV, V	68·9	—0·7	50	I	75·2	...	68·3	...	·605	+·010	...	70	+1	...
Hanamkonda	877	28·940	+·002	...	88·6	—2·6	106	V	71·9	+0·8	55	I, XII	76·6	...	70·6	...	·675	+·077	...	74	+13	...
Mysore—																						
Chitaldrug	2,405	27·454	—·004	...	86·6	—0·4	101	IV	68·1	+0·6	55	XII	73·4	...	67·7	...	·607	+·032	...	74	+4	...
Balehonnur	2,988	...	...	...	79·9	...	94	IV	63·6	...	52	XII	68·1	...	65·7	...	603	...	...	88	...	...
Hassan	3,149	26·765	+·002	...	83·3	0	97	IV	64·3	+1·6	51	XII	70·1	...	65·7	...	·583	+·005	...	79	+1	...
Bangalore	3,021	26·874	—·004	26·776	84·5	—0·1	98	IV	64·7	+0·4	53	XII	70·3	80·2	65·9	67·2	·586	+·007	·509	80	+2	53
Mysore	2,518	27·359	—·011	...	86·5	—0·8	99	IV	66·4	+0·5	55	XII	71·5	...	67·2	...	·619	+·013	...	80	+4	...
Malabar—																						
Mangalore	72	29·782	—·008	...	86·5	—1·2	93	I, II, XI	74·1	—0·2	65	I, XII	78·7	...	74·4	...	·792	+·007	...	80	+2	...
Calicut	27	29·823	—·012	...	87·4	+1·0	93	IV, V	...	...	...	...	78·5	...	74·5	...	·799	—·016	...	82	—2	...
Cochin	9	29·854	—·004	...	85·5	—2·3	91	I, IV, V	75·6	+0·6	70	I, XII	79·9	...	75·1	...	·809	+·004	...	90	0	...
Trivandrum	200	29·646	—·011	29·560	84·8	+0·5	91	II	75·6	+0·5	70	II, XI, XII	78·6	82·6	75·1	76·8	·815	+·024	·840	84	+2	76
Madras, Southeast—																						
Pamban	37	29·802	—·001	...	87·5	—0·2	93	V, VII	77·1	—0·4	71	II	81·7	...	77·6	...	·895	+·030	...	83	+3	...
Madura	463	29·368	—·013	...	92·5	—1·2	103	IV	75·3	+1·1	64	XII	79·1	...	72·4	...	·707	—·043	...	71	0	...
Negapatam	31	29·801	—·006	29·703	88·8	—1·4	101	V, VI, VII	77·2	+1·0	69	II, XII	80·8	84·3	74·7	76·2	·778	—·038	·794	74	—2	69
Trichinopoly	255	29·538	—·006	...	91·9	—2·4	103	IV	74·7	+0·4	65	I, II	80·5	...	73·7	...	·736	—·003	...	71	—1	...
Coimbatore	1,341	28·502	—·010	...	87·5	—2·4	98	III	70·5	+0·8	62	I, XII	75·9	...	70·6	...	·680	—·044	...	76	—5	...
Salem	913	28·924	—·008	...	91·2	—1·8	104	IV	71·8	+0·6	62	I, XII	76·8	...	71·7	...	·712	—·029	...	77	0	...
Cuddalore	42	29·807	+·008	...	89·2	—1·3	101	VI, VII	75·3	+0·5	52	XII	80·6	...	74·8	...	·788	—·038	...	76	—4	...
Vellore	702	29·116	—·021	...	91·3	—0·6	104	IV	72·6	+0·2	59	I, II, XII	77·5	...	72·1	...	·719	—·008	...	77	0	...
Madras	22	29·806	—·008	29·704	89·8	—1·1	102	VI	75·2	+0·7	63	XII	80·8	84·5	75·4	77·0	·808	—·005	·823	78	+1	71
Madras, Deccan—																						
Cuddapah	428	29·411	+·004	...	93·7	—1·9	108	IV	74·9	+0·4	61	XII	81·2	...	74·4	...	·768	+·057	...	72	+5	...
Bellary	1,473	28·367	+·003	...	90·1	—3·2	103	IV	71·3	+0·4	57	XII	77·0	...	69·3	...	·614	+·038	...	67	+6	...
Kurnool	923	28·913	+·007	...	92·3	—1·5	107	IV	72·0	+0·3	51	XII	77·9	...	69·6	...	·617	—·021	...	65	—2	...
Madras Coast, North—																						
Nellore	66	29·763	+·004	29·650	92·4	—1·3	107	IV	75·4	+0·2	64	XI	81·2	87·5	74·7	75·8	·773	—·020	3	74	—2	58
Masulipatam	10	29·812	—·007	...	88·1	—2·4	105	V	74·6	+0·1	64	I, XI, XII	79·8	...	75·3	...	·820	—·024	...	81	0	...
Cocanada	26	29·794	—·003	29·693	88·7	—0·6	109	V	74·3	—0·7	62	XII	79·7	84·8	74·2	75·3	·775	—·022	·729	77	—1	64
Vizagapatam	126	29·695	+·013	29·591	86·1	—0·9	98	IV	75·3	—0·1	62	I	79·3	82·3	74·2	76·8	·780	+·026	·833	78	+5	75
Calingapatam	19	29·790	+·005	...	87·6	—0·9	101	V	74·1	+0·3	59	I	79·1	...	74·9	...	·817	+·012	...	81	0	...
Gopalpur	56	29·743	+·003	29·658	86·4	+0·3	99	IV	73·2	—0·1	57	I	78·6	81·8	74·1	76·4	·800	+ 015	·848	80	—1	77

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1933.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											8 hrs. L. M. T.									17 hrs. I. S. T.								
Mean 8 hr. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Highest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bombay Deccan—
4·1	+1·1	5·5	30·83	+8·60	2·89	IX	40	+5·5	5·3	—1·1	19	6	8	4	14	100	125	31	48	46	56	14	14	14	71	85	46	19	Malegaon.
4·1	+1·2	...	38·97	+16·64	3·32	IX	46	+9·9	4·3	—2·5	36	8	7	28	19	33	57	90	87	...	...	...	...	...	...	...	...	...	Ahmadnagar.
4·5	+1·0	5·2	39·55	+12·44	2·52	V	63	+15·6	4·4	...	3	13	21	14	32	40	90	35	117	9	20	42	27	6	32	129	73	27	Poona.
4·3	...	5·0	47·94	...	3·61	VII	68	...	2·9	...	44	15	9	9	12	26	88	28	134	33	36	3	7	13	64	156	20	33	Satara.
3·9	—0·1	...	28·00	—0·45	2·31	VII	55	+13·7	4·9	—2·6	59	36	24	61	22	62	54	29	15	...	...	...	...	...	...	...	...	...	Sholapur.
5·1	...	...	28·22	...	2·60	X	56	...	5·8	...	12	14	72	27	7	43	78	62	50	...	...	...	...	...	...	...	...	...	Miraj.
4·4	+0·8	...	30·39	+9·49	2·60	IV	53	+16·9	4·1	—1·2	55	34	29	24	35	44	92	23	29	...	...	...	...	...	...	...	...	...	Bijapur.
4·2	—0·4	...	66·58	+16·45	4·02	VII	93	+12·1	3·4	—0·3	12	20	38	15	12	38	77	11	142	...	...	...	...	...	...	...	...	...	Belgaum
4·5	...	...	31·03	...	2·22	XII	68	...	...	...	4	2	87	5	10	35	126	9	87	...	...	...	...	...	...	...	...	...	Gadag.
																													Hyderabad, North
4·9	+1·2	...	41·14	+13·61	4·62	IV	55	+11·4	7·1	+0·2	19	35	91	19	5	47	103	10	36	...	...	...	...	...	...	...	...	...	Aurangabad.
3·8	+0·1	...	51·20	+11·12	4·31	IX	85	+29·3	2·3	—1·6	31	88	11	25	18	86	26	32	48	...	...	...	...	...	...	...	...	...	Nizamabad.
																													Hyderabad, South—
4·1	+0·8	...	30·26	—0·82	2·40	IX	54	+5·7	6·8	+0·1	27	65	62	30	24	59	62	24	12	...	...	...	...	...	...	...	...	...	Gulbarga.
4·1	+0·6	...	35·89	+7·89	3·50	X	63	+18·3	7·4	+0·4	0	49	0	108	2	135	0	71	0	...	...	...	...	...	...	...	...	...	Raichur.
5·2	+1·1	...	45·59	+13·32	2·69	X	70	+19·9	3·6	—0·1	5	16	18	50	35	20	86	29	106	...	...	...	...	...	...	...	...	...	Hyderabad.
5·0	+0·7	...	42·87	+8·45	3·28	X	54	+3·5	4·4	—0·5	28	5	24	105	35	35	59	30	44	...	...	...	...	...	...	...	...	...	Hanamkonda.
																													Mysore —
5·7	+0·9	...	41·72	+16·82	4·30	XII	68	+20·9	5·6	+0·3	1	14	61	35	12	102	96	18	26	...	...	...	...	...	...	...	...	...	Chitaldrug
6·3	...	...	119·25	...	4·60	VI	140	...	2·0	...	8	15	37	95	25	19	16	18	132	...	...	...	...	...	...	...	...	...	Balehonnur.
6·1	+0·7	...	46·36	+11·53	2·13	V	91	+23·9	4·9	+1·2	19	12	96	20	5	56	88	30	39	...	...	...	...	...	...	...	...	...	Hassan.
6·5	+1·3	6·5	41·30	+5·93	2·65	VIII	57	—1·9	5·8	+0·7	4	36	80	22	22	52	125	10	14	14	61	93	34	10	24	105	10	14	Bangalore.
5·5	—0·1	...	39·53	+8·13	2·40	V	64	+0·2	5·7	—1·0	5	56	27	9	15	85	67	9	92	...	...	...	...	...	...	...	...	...	Mysore.
																													Malabar—
6·4	+1·3	...	167·17	+41·49	8·70	VII	138	+21·5	4·9	+2·0	20	66	160	13	5	49	13	18	21	...	...	...	...	...	...	...	...	...	Mangalore.
6·0	+1·0	...	166·75	+49·59	8·47	V	140	+26·1	4·3	—1·1	18	10	22	6	3	8	13	25	260	...	...	...	...	...	...	...	...	...	Calicut.
6·0	+1·2	...	155·86	+41·30	9·97	V	146	+16·5	4·8	+0·3	11	147	63	35	6	15	25	22	41	...	...	...	...	...	...	...	...	...	Cochin.
6·1	+0·4	7·9	119·51	+55·00	6·74	V	128	+33·2	4·1	—0·1	129	29	13	4	4	1	12	29	144	22	9	5	7	12	46	139	87	38	Trivandrum.
																													Madras, Southeast—
4·7	+1·1	...	24·16	—12·84	1·50	X	47	+0·5	11·6	+3·7	44	43	31	26	79	71	13	39	19	...	...	...	...	...	...	...	...	...	Pamban.
6·1	+1·1	...	37·76	+4·18	3·12	X	49	—0·1	4·3	+0·6	51	65	31	7	7	6	65	83	50	...	...	...	...	...	...	...	...	...	Madura.
6·9	+1·8	6·3	44·81	—10·17	4·67	XII	48	—7·8	7·6	+1·9	7	39	27	11	17	52	126	75	11	11	99	49	59	47	58	34	6	2	Nagapatam.
4·9	+0·4	...	38·65	+5·47	3·35	X	60	+13·1	3·9	—0·2	56	77	1	9	5	127	57	17	16	...	...	...	...	...	...	...	...	...	Trichinopoly.
6·5	+2·0	...	27·00	+4·71	2·32	V	54	+9·6	4·4	+0·9	47	61	20	11	59	73	22	21	51	...	...	...	...	...	...	...	...	...	Coimbatore.
5·0	+0·4	...	49·29	+9·99	3·39	XII	57	—6·4	5·1	+1·8	11	110	14	1	43	98	23	1	64	...	...	...	...	...	...	...	...	...	Salem.
6·2	+1·7	...	38·59	—14·35	7·21	III	40	—16·4	5·9	+2·4	54	18	1	10	20	90	67	93	12	...	...	...	...	...	...	...	...	...	Cuddalore.
5·4	+1·7	...	27·20	—15·21	5·06	XII	44	—12·2	4·2	+1·5	27	14	3	18	26	65	96	41	75	...	...	...	...	...	...	...	...	...	Vellore.
6·4	+1·7	6·2	40·18	—10·56	6·42	XII	43	—14·3	8·0	+3·2	12	22	13	20	88	118	79	63	0	18	73	64	140	32	18	12	8	0	Madras.
																													Madras, Deccan—
4·8	+0·6	...	23·93	—7·30	2·42	VIII	36	—10·1	6·1	0	11	15	13	59	21	7	43	132	64	...	...	...	...	...	...	...	...	...	Cuddapah.
4·6	+0·1	...	37·38	+16·87	3·88	VIII	45	+9·7	4·2	—0·5	13	15	37	56	22	36	81	62	43	...	...	...	...	...	...	...	...	...	Bellary.
5·0	+1·1	...	28·18	+2·17	3·66	X	50	+3·3	6·5	+1·3	24	28	40	35	22	40	84	49	43	...	...	...	...	...	...	...	...	...	Kurnool.
																													Madras Coast, North—
5·2	—0·4	5·0	44·85	+6·87	3·07	X	46	+2·0	5·1	+0·6	16	10	11	39	65	20	108	85	11	4	48	189	31	4	9	65	14	1	Nellore.
3·8	—1·1	...	43·80	+2·21	3·76	VII	65	+10·5	4·9	0	77	35	12	11	55	33	73	34	35	...	...	...	...	...	...	...	...	...	Masulipatam.
5·6	+0·7	5·2	35·64	—3·45	4·35	X	58	+4·1	5·8	+0·5	55	52	5	9	21	57	69	35	62	4	19	61	94	74	45	41	10	17	Cocanada.
5·3	+0·1	5·4	29·55	—7·54	3·38	X	45	—5·9	4·9	+1·4	35	20	8	4	6	36	122	77	57	4	66	33	48	30	156	17	6	5	Vizagapatam.
4·9	+1·1	...	44·74	+2·27	4·20	VI	54	+2·4	6·6	+0·6	56	14	6	6	17	75	100	87	4	...	...	...	...	...	...	...	...	...	Calingapatam.
4·6	+1·7	5·5	54·70	+9·74	4·11	X	59	+2·8	8·3	+0·5	141	16	12	2	62	71	5	34	22	18	22	51	38	125	100	6	3	2	Gopalpur.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. cistern above mean sea-level in feet.	Pressure reduced to 32° and standard gravity, inches. Mean 8 hrs. L. M. T.	Pressure reduced to 32° and standard gravity, inches. Departure from normal.	Pressure reduced to 32° and standard gravity, inches. Mean 17 hrs. I. S. T.	Maximum temperature °F. Mean.	Maximum temperature °F. Departure from normal.	Maximum temperature °F. Highest.	Maximum temperature °F. Month.	Minimum temperature °F. Mean.	Minimum temperature °F. Departure from normal.	Minimum temperature °F. Lowest.	Minimum temperature °F. Month.	Dry bulb temperature °F. Mean 8 hrs. L. M. T.	Dry bulb temperature °F. Mean 17 hrs. I. S. T.	Wet bulb temperature °F. Mean 8 hrs. L. M. T.	Wet bulb temperature °F. Mean 17 hrs. I. S. T.	Vapour pressure, inches. Mean 8 hrs. L. M. T.	Vapour pressure, inches. Departure from normal	Vapour pressure, inches. Mean 17 hrs. I. S. T.	Relative humidity, %. Mean 8 hrs. L. M. T.	Relative humidity, %. Departure from normal.	Relative humidity, %. Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Hill Stations excluding Kashmir and Baluchistan—																						
Maymyo	3,546	26·388	+·017	26·329	78·3	+1·7	90	V	56·7	+0·3	35	XII	65·0	70·3	61·3	64·1	·521	—·012	·536	82	—4	73
Haka	6,100	24·106	...	24·015	68·9	...	82	V	53·5	...	35	XII	57·4	61·0	52·5	55·8	·361	...	·399	73	...	74
Kanpetlet	6,274	23·878	...	23·832	68·2	...	80	V	54·6	...	38	XII	61·8	60·8	55·0	56·4	·369	...	·413	67	...	78
Shillong	4,921	25·079	+·007	25·014	69·9	0	92	VII, VIII	53·2	—0·2	30	I	61·7	62·9	56·4	59·5	·411	—·004	·459	73	—1	79
Cherrapunji	4,309	25·635	+·004	25·568	69·1	+0·4	83	VII, VIII	57·6	+0·5	39	I	63·6	64·5	58·6	60·3	·450	—·021	·485	75	—6	79
Darjiling	7,432	22·903	—·002	...	58·3	—1·0	75	VI	47·4	—0·3	31	I	53·5	...	50·1	...	·341	—·012	...	79	—6	...
Kalimpong	3,807	26·001	+·004	25·920	69·4	—0·1	85	VIII	57·7	+0·1	42	I, XII	61·9	64·5	58·9	60·4	·480	—·005	·491	83	—1	79
Muktesar	7,592	22·791	—·001	22·754	61·5	—2·1	78	VI	49·2	+1·3	28	I	53·3	56·4	46·5	50·1	·266	—·006	·317	59	—2	65
Mussooree	6,910	23·335	+·037	...	61·8	—2·1	89	V, VI	49·5	—1·2	28	I	54·3	...	48·0	...	·313	+·004	...	68	+3	...
Simla	7,224	23·064	+·006	23·024	61·3	—1·1	80	VI	49·2	0	22	III	55·3	56·0	47·1	49·8	·260	+·003	·315	53	+2	65
Murree	7,115	23·185	...	23·169	60·8	—3·9	87	VI	46·8	—3·6	18	I	53·4	56·4	45·9	48·9	·257	—·010	·297	57	+1	59
Cherat	4,372	25·661	+·014	...	71·5	—1·1	105	VI	56·7	+0·2	32	I	61·1	...	52·7	...	·335	+·024	...	56	+4	...
Parachinar	5,673	24·393	+·007	24·349	69·8	—0·5	97	V	48·7	+0·8	19	I	57·7	65·3	48·0	51·8	·268	—·011	71	50	—6	39
Drosh	4,723	...	...	...	73·0	+0·3	107	VII	52·9	+1·0	24	I	55·9	...	47·8	...	·267	—·021	...	57	—1	...
Mount Abu	3,945	25·968	—·010	25·911	75·5	—0·3	90	V	61·0	—1·0	38	I	68·0	72·3	58·1	59·9	·386	+·018	·387	55	+1	48
Pachmarhi	3,528	26·396	+·019	26·325	79·2	—0·7	96	IV	59·6	—1·4	37	I	70·1	74·9	61·3	63·6	·450	+·014	·464	62	0	57
Mahabaleshwar	4,534	25·494	...	...	74·4	...	92	IV	60·4	...	49	XII	66·3	...	59·2	...	·426	...	...	68	...	...
Mercara	3,781	26·154	—·008	...	75·1	—1·2	89	IV	61·6	+0·5	53	X, XII	65·7	...	65·2	....	·550	+·009	...	87	+2	...
Kodaikanal	7,688	22·765	—·002	22·717	63·3	—1·6	71	IV	50·3	+0·8	38	XII	56·2	57·1	51·2	54·0	·328	+·005	·386	73	+5	68
Coonoor	5,730	24·434	...	...	70·0	...	78	IV	54·3	...	37	XII	64·1	...	57·4	...	·401	...	...	68	...	...
Ceylon—																						
Colombo	24	29·836	—·009	...	84·7	—2·4	90	I	74·6	—0·6	66	XII	77·7	...	74·7	...	·823	—·017	...	86	+1	...
Trincomale	99	29·720	+·012	...	86·0	—3·3	95	VII, VIII	76·1	—0·1	71	*	79·1	...	74·7	...	·797	—·040	...	81	—2	...
Hambantota	61	29·768	—·015	...	85·7	—0·8	94	VIII	74·5	—0·4	67	VII	78·1	...	74·8	...	·814	+ 010	...	84	—1	...
Nuwara Eliya	6,170	24·043	...	...	66·9	...	75	IV	51·4	...	32	II	56·8	...	53·2	...	·418	..	...	90	...	...
Arabia—																						
†Aden	98	29·744	—·013	...	90·5	+3·0	102	VII	78·8	+0·6	69	I, XII	81·3	...	76·0	..	·8·0	+·020	...	77	+2	

* The lowest minimum temperature was recorded in January, February, October November and December.
† Records observations at 7hrs. (L. M. T.)

8 HRS. (L. M. T.) and 17 HRS. (I. S. T.) FOR THE YEAR 1933.

Cloud amount, (tenths of sky.)			Rainfall, inches.				Number of rainy days. (0·10″ or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											8 hrs. L. M. T.									17 hrs. I. S. T.								
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Hill Stations excluding Kashmir and Baluchistan—
4·8	+0·3	4·2	67·45	+8·83	6·37	VIII	93	+2·2	2·1	...	2	1	17	4	31	4	10	0	296	0	1	8	3	16	6	3	0	328	Maymyo.
3·1	...	4·5	90·95	...	7·53	V	105	...	5·6	...	73	95	38	4	29	28	14	16	68	13	77	90	20	42	28	17	15	63	Haka.
4·2	...	5·	118·91	...	9·62	V	122	...	...	...	64	33	96	18	100	18	17	7	12	66	8	13	3	78	44	97	28	28	Kanpetlet.
4·7	+0·1	7·4	70·17	—13·75	4·55	VIII	108	—15·6	2·7	+0·5	34	36	39	22	29	68	46	10	80	42	23	20	8	18	74	37	13	130	Shillong.
5·1	—0·5	5·	319·11	—104·96	14·60	VII	139	—20·2	5·5	+1·5	21	65	73	21	45	68	48	14	10	10	47	27	19	54	134	51	9	14	Cherrapunji.
5·9	—0·1	...	128·30	+5·63	5·65	IX	137	+13·8	3·2	+0·4	4	33	77	49	8	9	17	5	163	...	...	...	...	...	...	...	...	...	Darjiling.
5·1	+0·9	6··	88·23	+6·41	8·06	IX	107	+6·8	6·2	...	11	4	2	29	5	6	57	166	85	2	2	8	234	76	0	3	11	30	Kalimpong.
4·2	—0·1	5·1	66·03	+13·75	2·72	X	98	+16·7	5·9	+1·0	13	47	53	31	6	19	132	15	49	4	10	18	22	16	63	207	5	20	Muktesar.
4·9	+1·1	...	111·57	...	5·12	VIII	114	...	4·5	...	50	82	31	39	60	19	6	18	110	...	...	...	...	...	...	...	...	...	Mussooree.
4·7	+0·6	5·7	61·82	—1·75	2·62	VII	113	+25·8	1·9	—1·5	13	85	13	34	62	15	9	1	141	30	69	7	43	38	39	7	26	106	Simla.
4·2	+0·5	5·1	82·34	+22·49	3·60	VII	102	+24·9	4·9	...	11	39	13	114	10	2	33	34	109	8	19	12	80	14	25	60	37	115	Murree.
3·8	+0·7	...	33·51	+6·00	5·50	VIII	51	+9·0	8·4	+1·1	143	3	0	36	53	14	10	74	32	...	...	...	...	...	...	...	...	...	Cherat.
3·1	+0·1	5·8	34·21	+4·69	2·05	IV	61	—3·8	4·7	+2·5	36	14	56	10	65	19	31	6	128	22	17	113	113	40	12	16	10	22	Parachinar.
2·9	—0·1	...	17·84	+1·09	2·62	IV	33	—7·0	2·3	—0·5	0	7	22	9	2	3	2	1	319	...	...	...	...	...	...	...	...	...	Drosh.
4·1	+0·7	4·3	80·04	+19·28	5·22	VIII	59	+5·3	4·5	—1·2	20	54	10	24	27	70	49	26	85	44	37	7	9	24	94	34	55	61	Mount Abu.
5·3	+1·7	6·0	107·11	+30·59	9·51	VIII	91	+13·5	2·5	—1·8	22	17	17	19	23	20	89	43	115	32	27	11	7	16	16	91	61	104	Pachmarhi.
4·7	...	...	296·51	...	12·95	VIII	128	...	...	...	0	8	92	1	8	51	5	2	197	...	...	...	...	...	...	...	...	...	Mahableshwar.
5·9	—0·3	...	160·54	+35·08	5·40	VII	150	+17·6	6·8	+2·8	9	44	45	6	7	15	53	44	142	...	...	...	...	...	...	...	...	...	Mercara.
5·4	+0·8	7·7	74·38	+12·20	2·92	XI	117	+10·4	7·3	—1·6	43	57	49	39	19	4	43	78	33	42	49	25	42	28	3	36	90	50	Kodaikanal.
6·1	...	...	49·66	...	2·78	VIII	91	...	3·1	...	4	3	10	77	38	14	10	36	178	...	...	...	...	...	...	...	...	...	Coonoor.
																													Ceylon—
6·5	+0·4	...	89·80	+5·14	5·13	V	137	+26·0	·8	—0·5	17	78	45	29	8	58	66	4	60	...	...	...	...	...	...	...	...	...	Colombo.
5·4	+1·1	...	56·99	—4·60	4·98	XI	70	—2·3	7·5	+1·0	22	41	24	2	8	94	104	9	61	...	...	...	...	...	...	...	...	...	Trincomalie.
4·6	0	...	51·69	+10·88	5·29	XI	92	+21·4	11·5	+2·8	54	81	1	2	0	30	150	37	8	...	...	...	...	...	...	...	...	...	Hambantota.
6·2	...	...	133·19	...	6·72	V	180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nuwara Eliya.
																													Arabia—
4·3	+0·2	...	0·74	—1·20	0·18	XI	5	+1·4	5·7	—3·2	33	81	48	14	42	19	17	5	106	...	...	...	...	...	...	...	...	...	†Aden.

TABLE II-A—ABSTRACT OF OBSERVATIONS RECORDED AT

Station and Month.	Height of bar. cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, Inches.			Relative humidity %.		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
TABLE ISLAND. (Bay Islands.)	105																					
January	...	29·802	−·038	...	84·1	+1.1	86	25, 27	75°1	0	72	22	80·1	...	73·8	...	·750	+·040	...	73	0	...
February	...	29·767	−·046	...	85·2	+1·4	88	21, 22, 25	73·3	−1·5	70	5 days	80·1	...	73·0	...	·716	+·003	...	70	−4	...
March	...	29·750	−·037	...	87·9	+1·3	91	29	76·3	0	73	4, 5	83·1	...	75·5	...	·765	−·026	...	70	−7	...
April	...	29·729	−·011	...	90·2	+0·8	93	18, 19, 20	80·3	+1·1	75	24	85·2	...	77·5	...	·824	−·025	...	70	−4	...
May	...	29·653	−·006	...	88·9	+0·5	93	15, 16, 19	80·6	−1·7	77	4 days	85·4	...	78·8	...	·901	−·029	...	74	−7	...
June	...	29·590	−·012	...	84·0	−1·3	87	4, 12	76·4	−1·4	73	4 days	81·1	...	78·3	...	·916	−·041	...	87	−1	...
July	...	29·580	−·021	...	84·4	+0·1	88	19	77·7	+0·5	73	27	81·0	...	78·4	...	·923	−·034	...	88	−2	...
August	...	29·641	+·013	...	85·1	+1·1	89	30	78·6	+1·4	73	3	81·8	...	78·0	...	·903	−·038	...	83	−6	...
September	...	29·654	−·016	...	84·0	−0·3	89	2	76·5	−0·6	72	16. 23	80·9	...	77·6	...	·910	−·013	...	86	−2	...
October	...	29·712	−·025	...	84·4	−0·8	87	3, 30	77·2	−0·5	74	18	81·3	...	77·6	...	·910	+·015	...	84	0	...
November	...	29·738	−·042	...	84·2	−0·7	87	2	77·2	−0·6	74	15, 24	81·2	...	76·1	...	·828	−·026	...	78	−2	...
December	...	29·784	−·031	...	82·6	−0·5	85	15	74·6	−1·7	71	30, 31	80·1	...	73·6	...	·750	+·009	...	72	−2	...
Year	...	29·700	−·023	...	85·4	+0·2	93	IV, V	76·8	−0·4	70	II	81·8	...	76·5	...	·841	−·014	...	78	−3	...
CAR NICOBAR. (Bay Islands.)	19																					
January	...	29·857	+·006	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
February	...	29·853	−·009	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
March	...	29·807	−·029	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
April	...	29·771	−·037	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
May	...	29·705	−·065	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
June	...	29·685	−·057	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
July	...	29·656	−·087	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
August	...	29·709	−·051	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
September	...	29·712	−·073	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
October	...	29·727	−·074	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
November	...	29·723	−·096	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
December	...	29·760	−·074	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Year	...	29·747	−·054	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
MINICOY. (Arabian Sea.)	9																					
January	...	29·886	−·027	...	86·1	+0·2	87	19	76·2	...	72	1	80·8	...	74·9	...	·785	...	...	74	...	...
February	...	29·886	−·022	...	86·9	+0·5	89	8	76·6	...	72	10	80·8	...	76·0	...	·828	...	...	78	...	...
March	...	29·871	−·011	...	88·1	+0·2	90	4 days	76·5	...	74	4 days	82·4	...	76·9	...	·845	...	...	75	...	...
April	...	29·857	+·021	...	89·6	+0·1	95	25	78·1	...	74	5, 11, 27	84·3	...	78·1	...	·876	...	...	75	...	...
May	...	29·796	−·023	...	87·1	−1·9	92	3	77·1	...	71	19	82·4	...	77·7	...	·896	...	...	81	...	...
June	...	29·831	+·026	...	85·6	−0·7	88	8, 9	77·9	...	73	21, 22	81·8	...	77·7	...	·903	...	...	83	...	...
July	...	29·841	+·019	...	85·1	−0·6	87	8 days	77·1	...	73	6	80·8	...	76·9	...	·872	...	...	83	...	...
August	...	29·845	−·001	...	83·8	−1·9	86	5 days	75·5	...	73	21, 22, 29	78·9	...	75·7	...	·855	...	...	86	...	...
September	...	29·861	−·004	...	84·0	−1·7	86	5 days	76·4	...	73	1, 2	80·0	...	76·1	...	·842	...	...	82	...	...
October	...	29·844	−·019	...	84·4	−1·7	87	11, 21	76·1	...	72	24	80·5	...	76·1	...	·835	...	...	80	...	...
November	...	29·871	−·007	...	85·5	−0·8	87	7 days	76·0	...	71	19	81·3	...	76·4	...	·828	...	...	78	...	...
December	...	29·874	−·024	...	86·2	0	88	5 days	75·5	...	71	11, 19	81·2	...	74·4	...	·743	...	...	70	...	...
Year	...	29·855	−·006	...	86·0	−0·7	95	IV	76·6	...	71	V, XI, XII	81·3	...	76·4	...	·842	...	...	79	...	...

8 Hrs. (L. M. T.) and 17 Hrs. (I. S. T.) for each month and the year 1933.

Cloud amount, (tenths of sky.)			Rainfall, inches.				Number of rainy days (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																	Station and month.
											8 hrs. L. M. T.									17 hrs. I. S. T.									
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the month or year.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in month or year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm.	N	NE	E	SE	S	SW	W	NW	Calm.	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													TABLE ISLAND. (Bay Islands.)
3·6	−0·5	...	0	−0·77	0	...	0	−0·7	9·2	+1·9	20	11	0	0	0	0	0	0	0	...	...	...	...	...	...	...	...	...	January
3·0	−0·2	...	0	−0·12	0	...	0	−0·3	6·6	+0·1	25	2	0	0	0	0	0	0	1	...	...	...	...	...	...	...	...	...	February
3·4	−0·1	...	0	−0·17	0	...	0	−0·3	5·6	+0·2	24	2	1	0	0	0	1	2	1	...	...	...	...	...	...	...	...	...	March
5·8	+1·8	...	1·54	+0·91	0·83	24	2	+0·9	6·6	+1·1	15	1	0	2	4	3	3	0	2	...	...	...	...	...	...	...	...	...	April
8·2	+1·9	...	3·72	−5·03	1·13	29	10	−0·7	8·8	−1·1	4	6	2	4	6	6	3	0	0	...	...	...	...	...	...	...	...	...	May
9·4	+2·2	...	28·45	+13·35	4·20	21	26	+9·2	17·4	+1·8	0	0	0	1	11	15	2	1	0	...	...	...	...	...	...	...	...	...	June
8·7	+0·7	...	16·92	+3·41	1·63	29	26	+3·4	13·5	−4·0	0	0	1	0	9	20	1	0	0	...	...	...	...	...	...	...	...	...	July
7·7	−0·3	...	13·27	+1·80	3·62	9	12	−4·2	7·2	−9·6	0	0	0	5	13	8	4	0	1	...	...	...	...	...	...	...	...	...	August
7·0	0	...	25·50	+14·16	4·55	11	21	+5·4	15·7	+4·4	1	1	0	2	4	11	3	0	5	...	...	...	...	...	...	...	...	...	September
6·4	+0·7	...	11·33	+4·84	1·57	5	15	+4·8	8·7	+1·5	2	5	1	3	6	4	1	0	4	...	...	...	...	...	...	...	...	...	October
5·7	+0·4	...	3·42	−2·23	1·44	16	5	−1·8	6·3	−0·4	13	11	1	3	0	1	0	1	0	...	...	...	...	...	...	...	...	...	November
4·7	−0·1	...	2·23	−0·14	1·57	6	4	+1·7	6·4	−1·3	9	19	3	0	0	0	0	0	0	...	...	...	...	...	...	...	...	...	December
6·1	+0·5	...	106·33	+30·01	4·55	IX	121	+22·4	9·3	−0·5	113	58	9	25	53	71	18	4	14	...	...	...	...	...	...	...	...	...	*Year*
																													CAR NICOBAR. (Bay Islands.)
5·3	−1·1	...	4·36	+0·25	1·65	8	7	+2·8	11·0	...	1	14	15	1	0	0	0	0	0	...	...	...	...	...	...	...	...	...	January
2·4	−5·6	...	1·30	+0·19	0·60	21, 22	2	0	3·5	...	0	6	13	1	0	0	0	0	8	...	...	...	...	...	...	...	...	...	February
3·0	−5·0	...	0·20	−1·18	0·12	15	1	−1·0	3·0	...	5	5	7	0	0	0	0	2	12	...	...	...	...	...	...	...	...	...	March
5·1	−3·5	...	13·43	+10·36	2·25	20	12	+6·7	2·9	...	6	5	4	2	2	2	0	3	6	...	...	...	...	...	...	...	...	...	April
6·2	−2·7	...	9·74	−3·09	1·45	18	18	+3·7	2·7	...	2	1	6	4	4	6	3	1	4	...	...	...	...	...	...	...	...	...	May
6·4	−2·8	...	5·93	−6·60	2·54	26	12	−2·6	2·6		0	0	0	0	6	15	8	0	1	...	...	...	...	...	...	...	...	...	June
6·5	−2·8	...	9·98	+0·89	2·13	5	14	+1·9	2·5	...	0	0	0	0	6	9	10	0	6	...	...	...	...	...	...	...	...	...	July
6·4	−2·8	...	9·75	−0·76	3·07	13	9	−4·2	2·0	...	2	3	1	2	7	10	0	0	6	...	...	...	...	...	...	...	...	...	August
8·1	−1·1	...	12·56	+0·10	2·06	4, 28	19	+4·5	2·4	...	1	0	0	3	5	12	4	1	4	...	...	...	...	...	...	...	...	...	September
6·7	−2·0	...	16·25	+4·99	2·69	4	19	+4·7	1·4	...	3	0	0	1	3	2	3	6	13	...	...	...	...	...	...	...	...	...	October
6·7	−1·7	...	13·76	+3·14	4·47	14	15	+3·0	6·9	...	0	11	7	6	0	2	0	0	4	...	...	...	...	...	...	...	...	...	November
5·0	−3·0	...	3·45	−4·42	0·89	11	7	−1·7	7·0	...	1	7	15	5	0	0	0	0	3	...	...	...	...	...	...	...	...	...	December
5·7	−2·8	...	100·71	+3·87	4·47	XI	135	+17.8	4·0	...	21	52	68	25	33	58	28	13	67	...	...	...	...	...	...	...	...	...	*Year*
																													MINICOY. (Arabian Sea.)
6·9	+3·9	...	0·48	−1·40	0·35	10	1	−1·7	2·9	−0·7	17	13	0	0	1	0	0	0	0	...	...	...	...	...	...	...	...	...	January
7·1	+4·1	...	2·71	+2·06	1·51	19	2	+0·9	2·3	−1·0	14	5	0	0	0	1	0	1	7	...	...	...	...	...	...	...	...	...	February
6·8	+4·0	...	1·30	+0·26	1·20	9	2	+0·4	1·9	−1·4	8	6	0	1	1	0	0	2	13	...	...	...	...	...	...	...	...	...	March
7·4	+3·5	...	2·14	−0·48	0·82	5	4	+0·4	3·3	−0·8	7	1	2	1	1	3	5	6	4	...	...	...	...	...	...	...	...	...	April
7·9	+2·9	...	24·63	+18·24	3·62	10	20	+11·4	8·3	+2·2	4	2	0	1	4	10	6	1	3	...	...	...	...	...	...	...	...	...	May
7·8	+1·0	...	8·42	−3·43	1·65	22	15	−2·3	11·2	+0·7	0	0	0	0	0	14	12	3	1	...	...	...	...	...	...	...	...	...	June
7·5	+1.2	...	10·79	+1·99	3·60	23	14	+0·1	8·5	−1·8	1	0	0	0	0	4	14	12	0	..	...	...	...	...	...	...	...	...	July
7·9	+2·4	...	11·99	+4·83	2·00	20	21	+10·0	6·7	−1·5	0	0	0	0	0	2	19	19	0	...	...	...	...	..	..	...	...	...	August
6·6	+1·6	...	8·39	+1·98	2·43	1	10	−0·1	7·9	+1·4	5	0	0	0	0	6	12	7	0	...	...	...	...	...	...	...	...	..	September
6·5	+1·3	...	4·89	−3·43	1·51	19	13	+1·4	7·8	+2·6	2	1	0	0	0	8	9	11	0	...	...	...	...	...	...	...	...	...	October
5·7	+1·2	...	4·69	−0·60	2·28	5	7	−0·1	2·3	−1·6	6	4	1	1	1	1	2	10	4	...	...	...	...	...	...	...	...	...	November
4·6	+1·1	...	1·28	−2·23	0·90	25	3	−1·2	2·0	−1·6	9	7	1	1	1	0	2	3	7	...	...	...	...	...	...	...	...	...	December
6·0	+2·4	...	81·77	+17·79	3·62	V	112	+19·2	5·4	−0·3	73	39	4	5	9	49	72	75	39	...	...	...	...	...	...	...	...	...	*Year*

TABLE II-A—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION AND MONTH.	Height of bar cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity %.		
		Mean 8 hours L.M.T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	17 hrs I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
AMINI DIVI (Arabian Sea)	13																					
January		29·901	−·028	...	88·4	+2·3	91	29	73·9	−0·1	70	13	82·6	...	74·8	...	·758	−·018	...	67	−5	...
February		29·890	−·033	...	90·5	+3·4	93	17, 28	77·0	+1·0	73	13	83·4	...	76·1	...	·794	+·006	...	69	−3	...
March		29·865	−·025	...	91·4	+1·9	95	27	78·9	+1·3	74	11	85·4	...	77·6	...	·849	+·021	...	68	−4	...
April		29·843	+·009	...	91·4	−0·3	95	28, 29, 30	81·4	+1·6	78	4, 11, 12	86·6	...	79·5	...	·927	+·050	...	72	+1	...
May		29·778	−·030	...	89·5	−2·0	97	1	79·1	−1·5	74	12	84·6	...	79·0	...	·914	0	...	77	+3	...
June		29·769	+·002	...	86·3	−1·0	88	6 days	78·5	+0·4	76	6 days	83·0	...	79·0	...	·935	+·010	...	83	+1	...
July		29·790	+·002	...	84·8	−0·9	86	11 days	77·7	+0·3	73	1	81·4	...	79·4	...	·962	+·070	...	91	+8	...
August		29·810	−·013	...	84·0	−1·7	88	31	76·7	−0·7	74	5 days	80·7	...	78·1	...	·923	+·043	...	89	+7	...
September		29·827	−·021	...	83·8	−2·0	89	27, 28	76·2	−1·0	73	2, 7	80·0	...	77·8	...	·930	+·066	...	91	+10	...
October		29·805	−·052	...	84·7	−1·7	90	30	76·3	−0·5	71	23	80·4	...	76·8	...	·878	+·010	...	85	+5	...
November		29·861	−·014	...	88·0	+1·5	92	26, 27	76·4	+0·9	72	20	82 9	...	77·2	...	·861	+·017	...	77	+1	...
December		29·869	−·039	...	89·2	+2·9	92	24	74·2	+0·4	69	31	83·6	...	74·7	...	·745	−·037	...	64	−9	...
Year		29·884	−·020	...	87·7	+0·2	97	V	77·2	+0·2	69	XII	82·9	...	77·5	...	·872	+·020	...	78	+2	...
GYANTSE (Tibet)	13, 110																					
January		18·351	...	...	43·4	...	54	5	7·6		0	1	22·6	...	...	...	...	...	...	...	...	...
February		18·364	...	...	44·4	...	54	3	9·6	...	0	5	23·8	...	...	...	...	...	...	...	...	...
March		18·435	...	...	49·9	...	59	28	17·1	...	7	3	32·2	...	...	...	...	...	...	...	...	...
April		18·433	...	...	52·0	...	61	22	24·5	...	15	1	37·2	...	...	...	...	...	...	...	...	...
May		18·476	...	...	58·0	...	65	17, 29	34·0	...	22	14	43·2	...	38·0	...	·185	...	...	67	...	...
June		18·434	...	...	69·2	...	76	19	44·7	...	38	9, 21	53·0	...	45·6	...	·244	...	...	60	...	...
July		18·493	...	...	68·5	...	73	16, 31	47·0	...	43	11, 12, 13	52·8	...	49·2	...	·316	...	...	80	...	...
August		18·529	...	...	65·2	...	75	9	40·2	...	35	30	50·0	...	46·0	...	·317	...	...	88	...	...
September		18·532	...	...	63·3	...	69	9	40·5	...	36	12	48·5	...	43·4	...	·253	...	...	70	...	...
October		18·539	...	...	58·1	...	64	1	30·3	...	19	29	40·7	...	36·3	...	·172	...	...	68	...	...
November		18·488	...	...	50·5	...	58	1, 3, 4	17·7	...	9	6	30·5	...	28·7	...	·144	...	...	83	...	...
December		18·415	...	...	41·7	...	51	5	8·8	...	1	15, 16, 17	20·5	...	19·2	...	·094	...	...	84	...	...
Year		18·457	...	...	55·3	...	76	VI	26·8	...	0	I, II	37·9	...	...	...	...	...	...	...	...	...
KASHGAR* (Eastern Turkistan)	4,255																					
January		25·62	−·10	...	22·7	−11·4	37	10	4·1	−8·1	−9	15	8·0	...	6·6	...	·047	−·040	...	71	−5	...
February		25·41	−·25	...	41·9	−1·3	65	23	21·9	+2·1	12	3	27·0	...	24·5	...	·110	+·007	...	78	+2	...
March		25·38	−·20	...	54·2	−3·3	67	21	34·0	−1·1	27	10, 13	40·8	...	36·2	...	·160	+·007	...	64	+7	...
April		25·37	−·16	...	74·4	+2·4	86	30	49·4	+0·9	40	1	59·9	...	49·5	...	·226	+·041	...	44	−3	...
May		25·36	−·16	...	83·7	+1·7	96	29, 30, 31	57·4	−0·5	49	25	69·9	...	68·2	...	·499	+1 89	...	69	+23	...
June		25·20	−·23	...	91·2	+1·4	104	22	63·5	−0·6	55	13	78·9	...	65·6	...	·481	+·090	...	48	+4	...
July		25·22	−·17	...	98·2	+3·7	101	8, 30	69·0	+1·3	62	11	83·5	...	69·6	...	·568	+·106	...	49	0	...
August		25·27	−·20	...	95·6	+5·1	105	13	67·4	+1·7	59	2	83·7	...	74·2	...	·726	+·262	...	63	+9	...
September		25·40	−·19	...	84·8	+1·0	92	4 days	52·5	+4·5	43	4	68·7	...	57·5	...	·332	−·011	...	48	−7	...
October		25·53	−·17	...	68·3	−2·6	84	3	40·4	−2·3	31	27, 29	51·0	...	44·4	...	·213	+·007	...	58	+1	...
November		25·56	−·19	...	53·4	+0·1	65	1, 5	27·5	−1·0	23	15	33·0	...	29·8	...	·135	0	...	72	+5	...
December		25·45	−·27	...	41·2	+0·1	52	9	22·0	+0·8	15	22	25·0	...	23·8	...	·120	+·033	...	88	+12	...
Year		25·40	−·19	...	67·3	+0·1	105	VIII	42·4	−0·6	−9	I	52·5	...	45·4	...	·301	+·055	...	62	+3	...

*Aneroid barometerin use.

8 Hrs. (L. M. T.) and 17 Hrs. (I. S. T.) for each Month and the year 1933.

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days. (0·10 or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																Station and month.
											8 hrs. L. M. T.									17 hrs. I. S. T.								
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the month or year.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month or year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													AMINI DIVI (Arabian Sea)
4·1	+0·4	...	0	-0·70	0	...	0	-1·1	3·6	-0·4	15	11	1	0	0	0	0	3	1	...	...	...	...	...	...	...	...	...	January
3·9	+0·4	...	0	-0·08	0	...	0	-0·3	4·7	-0·3	15	6	0	0	0	0	0	7	0	...	...	...	...	...	...	...	...	...	February
2·2	-0·9	...	0	-0·05	0	...	0	-0·1	4·9	-0·2	16	5	0	1	0	0	0	8	1	...	...	...	...	...	...	...	...	...	March
4·7	+0·2	...	1·36	-0·14	0·68	11	2	+0·3	4·8	-0·9	7	0	2	1	1	1	3	14	1	...	...	...	...	...	...	...	...	...	April
7·9	+2·3	...	27·40	+23·73	6·34	27	17	+12·3	6·7	-0·6	5	1	1	1	4	2	7	7	3	...	...	...	...	...	...	...	...	...	May
6·6	-1·2	...	7·28	-7·03	1·48	5	13	-3·5	12·0	-0·7	0	0	0	0	0	10	19	1	0	...	...	...	...	...	...	...	...	...	June
8·5	+0·9	...	18·03	+6·03	4·15	2	16	+0·3	15·3	+1·2	0	1	0	0	0	5	21	4	0	...	...	...	...	...	...	...	...	...	July
8·9	+1·9	...	14·25	+6·70	2·68	22	13	+6·6	13·6	+0·6	4	0	0	0	0	2	12	13	0	...	...	...	...	...	...	...	...	...	August
7·5	+1·2	...	22·33	+15·98	4·84	7	21	+10·5	12·8	+2·7	4	0	1	0	0	4	12	9	0	...	...	...	...	...	...	...	...	...	September
7·4	+1·3	...	7·54	+1·73	1·84	11	13	+4·3	5·5	-1·0	1	3	1	1	3	5	5	4	8	...	...	...	...	...	...	...	...	...	October
5·7	+0·9	...	2·01	-0·57	0·78	15	4	-0·2	3·1	-0·6	9	5	1	2	1	0	0	6	6	...	...	...	...	...	...	...	...	...	November
3·5	-0·1	...	0·11	-1·16	0·11	23	1	-1·0	3·3	-0·1	17	7	2	0	0	1	1	3	0	...	...	...	...	...	...	...	...	...	December
5·9	+0·6	...	100·41	+44·44	6·34	V	105	+28·1	7·5	0	93	39	9	6	9	30	80	79	20	...	...	...	...	...	...	...	...	...	*Year*
																													GYANTSE (Tibet)
...	...	...	0	...	0	...	0	...	2·5	...	0	0	1	4	9	0	1	0	16	...	...	...	...	...	...	...	...	...	January
...	...	...	0	...	0	...	0	...	5·7	...	0	0	0	5	4	0	0	0	19	...	...	...	...	...	...	...	...	...	February
...	...	...	0·06	...	0·06	5	0	...	5·6	...	1	0	8	1	8	0	0	0	13	...	...	...	...	...	...	...	...	...	March
...	...	...	0·31	...	0·25	27	1	...	6·7	...	0	0	4	10	12	0	0	0	4	...	...	...	...	...	...	...	...	...	April
...	...	...	0·99	...	0·28	29	4	...	5·8	...	1	0	3	2	5	0	1	0	19	...	...	...	...	...	...	...	...	...	May
...	...	...	0·91	...	0·27	19	3	...	4·5	...	1	0	5	3	4	0	0	0	17	...	...	...	...	...	...	...	...	...	June
...	...	...	2·18	...	0·33	16	8	...	3·9	...	5	0	2	2	0	0	1	0	21	...	...	...	...	...	...	...	...	...	July
6·0	...	...	4·72	...	1·00	29	12	...	3·4	...	5	0	2	1	1	0	0	0	22	...	...	...	...	...	...	...	...	...	August
6·1	...	...	2·38	...	0·32	2, 3	9	...	2·7	...	1	0	1	2	1	0	0	1	24	...	...	...	...	...	...	...	...	...	September
3·1	...	...	0·44	...	0·39	1	1	...	3·8	...	0	0	4	1	2	0	0	0	24	...	...	...	...	...	...	...	...	...	October
0·5	...	...	0	...	0	...	0	...	4·1	...	0	0	0	0	7	0	0	0	23	...	...	...	...	...	...	...	...	...	November
2·0	...	...	0·05	...	0·03	25	0	...	3·7	...	0	0	1	0	3	0	0	0	27	...	...	...	...	...	...	...	...	...	December
...	...	...	12·04	...	1·00	VIII	38	...	4·4	...	14	0	31	31	56	0	3	1	229	...	...	...	...	...	...	...	...	...	*Year*
																													KASHGAR (Eastern Turkistan)
4·0	-1·1	...	0·01	-0·16	0·01	11	0	-0·8	1·2	+0·7	1	0	1	0	2	0	0	0	27	...	...	...	...	...	...	...	...	...	January
3·1	-1·5	...	0	-0·17	0	...	0	-0·5	1·3	+0·5	2	2	1	0	1	0	1	1	20	...	...	...	...	...	...	...	...	...	February
4·4	-0·4	...	0·45	+0·14	0·40	9	1	+0·3	1·9	+0·3	4	1	1	0	1	0	0	2	22	...	...	...	...	...	...	...	...	...	March
0·3	-4·3	...	0·01	-0·23	0·01	8	0	-0·2	2·1	-0·2	1	2	3	0	0	0	6	3	15	...	...	...	...	...	...	...	...	...	April
1·5	-1·8	...	0·39	-0·26	0·38	20	1	-0·2	2·8	+0·3	5	0	1	0	0	0	4	3	18	...	...	...	...	...	...	...	...	...	May
0·8	-1·6	...	0·11	-0·16	0·09	26	0	-0·8	2·9	0	10	0	1	0	2	0	3	0	14	...	...	...	...	...	...	...	...	...	June
0·5	-2·3	...	0·02	-0·22	0·02	23	0	-0·8	2·2	-0·6	1	2	1	1	3	0	2	3	18	...	...	...	...	...	...	...	...	...	July
0·4	-3·1	...	0	-0·53	0	...	0	-1·6	1·5	-0·5	4	0	2	0	2	0	3	2	18	...	...	...	...	...	...	...	...	...	August
1·9	-0·6	...	0	-0·27	0	...	0	-0·7	1·6	+0·2	1	5	1	0	2	1	0	1	19	...	...	...	...	...	...	...	...	...	September
2·2	-0·1	...	0	-0·02	0	...	0	-0·1	1·3	+0·3	4	3	0	2	2	1	1	0	18	...	...	...	...	...	...	...	...	...	October
3·2	+0·5	...	0	-0·15	0	...	0	-1·1	1·1	+0·5	0	2	0	3	1	1	1	1	21	...	...	...	...	...	...	...	...	...	November
6·0	+0·9	...	0	-0·17	0	...	0	-0·8	1·1	+0·6	1	3	1	3	0	1	1	0	21	...	...	...	...	...	...	...	...	...	December
2·4	-1·2	...	0·99	-2·17	0·40	II	2	-7·6	1·7	+0·1	34	20	13	9	16	4	22	16	231	...	...	...	...	...	...	...	...	...	*Year*

TABLE II-A.—ABSTRACT OF OBSERVATIONS RECORDED AT

Station and month.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure inches.			Relative humidity %		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Kabul (Afghanistan)	5,955																					
January		24·341	...	...	36·7	...	51	11	16·6	...	0	24, 25	23·7	...	20·6	...	·087	...	...	67	...	...
February		24·240	...	...	40·5	...	54	28	23·1	...	6	3	30·2	...	26·6	...	·114	...	...	68	...	...
March		24·282	...	...	63·6	...	68	17	35·6	...	28	25	44·0	...	37·7	...	·161	...	...	55	...	...
April		24·248	...	...	62·4	...	73	30	41·0	...	34	1	54·2	...	44·5	...	·200	...	...	47	...	...
May		24·194	...	...	79·1	...	90	30	51·0	...	41	8	69·8	...	55·2	...	·281	...	...	39	...	...
June		24·090	...	...	88·6	...	100	21	57·3	...	46	6	78·6	...	60·1	...	·323	...	...	33	...	...
July		24·083	...	...	93·9	...	100	7	60·9	...	53	4	83·6	...	62·8	...	·354	...	...	30	...	...
August		24·137	...	...	90·9	...	95	4 days	56·3	...	55	31	78·3	...	64·5	...	·463	...	...	46	...	...
September		24·228	...	...	84·7	...	88	8	52·1	...	42	4	70·6	...	56·6	...	·318	...	...	42	...	...
October		24·323	...	...	74·8	...	86	2	41·3	...	32	26	56·1	...	43·3	...	·158	...	...	35	...	...
November		24·374	...	...	61·9	...	72	3	33·7	...	21	27	42·9	...	35·4	...	·126	...	...	46	...	...
December		24·330	...	...	50·3	...	59	29	32·6	...	28	19	36·7	...	33·5	...	·156	...	...	74	...	...
Year		24·242	...	...	68·9	...	100	VI, VII	41·8	...	0	I	55·8	...	45·1	...	·228	...	...	49	...	...
Hinaidi * (Baghdad) 6 hrs. (G. M. T.)	109																					
(IRAQ)																						
January		30·17	...	...	55·2	...	62	23	36·3	...	21	10	41·3	...	39·8	...	·220	...	...	83	...	...
February		30·00	...	...	65·0	...	80	25	44·0	...	35	12	51·2	...	48·0	...	·295	...	...	79	...	...
March		29·96	...	...	70·1	...	77	4 days	47·5	...	36	5, 6	57·0	...	50·3	...	·274	...	...	60	...	...
April		29·90	...	...	80·0	...	97	25	51·6	...	43	16	67·3	...	55·0	...	·266	...	...	40	...	...
May		29·79	...	...	97·5	...	106	22	66·5	...	59	2	84·3	...	62·7	...	·288	...	...	24	...	...
June		29·66	...	...	101·6	...	112	14	71·9	...	61	1	86·9	...	63·8	...	·288	...	...	22	...	...
July		29·54	...	...	108·2	...	113	15, 16	76·4	...	71	1, 22	90·4	...	66·1	...	·310	...	...	22	...	...
August		29·57	...	...	110·3	...	116	24	77·0	...	70	5 days	89·3	...	65·6	...	·316	...	...	22	...	...
September		29·73	...	...	102·5	...	112	4	68·3	...	60	26	84·0	...	62·3	...	·294	...	...	25	...	...
October		29·95	...	...	92·4	...	106	2	60·4	...	52	27, 28	75·3	...	57·6	...	·249	...	...	28	...	...
November		30·05	...	...	79·2	...	90	3	49·0	...	36	24	59·8	...	44·3	...	·084	...	...	17	...	...
December		30·11	...	...	62·7	...	75	22	39·6	...	26	28	46·3	...	41·3	...	·191	...	...	62	...	...
Year		29·87	...	...	85·4	...	116	VIII	57·4	...	21	I	69·5	...	54·8	...	·256	...	...	40	...	...
Abadan * 9 hrs. (L. M. T.)	10																					
(PERSIA—IRAN)																						
January		30·18	...	...	60·0	...	68	27	42·9	...	26	10	50·3	...	47·3	...	·282	...	...	78	...	...
February		30·01	...	...	68·0	...	81	24, 25	48·7	...	35	1	57·8	...	53·0	...	·336	...	...	70	...	...
March		29·98	...	...	73·7	...	82	26	54·2	...	42	6, 7	64·0	...	56·1	...	·342	...	...	57	...	...
April		29·70	...	...	85·0	...	98	25	60·1	...	50	7	75·6	...	59·7	...	·304	...	...	34	...	...
May		29·73	...	...	100·4	...	109	22	72·1	...	66	2, 11, 31	90·3	...	66·7	...	·345	...	...	24	...	...
June		29·61	...	...	103·9	...	114	11	75·4	...	67	1	94·4	...	67·4	...	·298	...	...	19	...	...
July		29·52	...	...	108·2	...	114	31	80·4	...	75	9, 12, 15	97·3	...	68·5	...	·318	...	...	18	...	...
August		29·52	...	...	109·5	...	117	5	80·1	...	71	21	96·7	...	71·7	...	·447	...	...	25	...	...
September		29·70	...	...	104·3	...	113	5	70·7	...	61	27	89·5	...	67·6	...	·386	...	...	28	...	...
October		29·83	...	...	97·4	...	109	3	65·2	...	53	28	83·7	...	62·9	...	·294	...	...	25	...	...
November		30·04	...	...	81·7	...	89	2, 3, 4	52·5	...	37	25	67·4	...	54·2	...	·245	...	...	37	...	...
December		30·11	...	...	69·9	...	84	23	48·1	...	31	31	56·9	...	49·9	...	·267	...	...	58	...	...
Year		29·83	...	...	88·5	...	117	VIII	62·1	...	26	I	77·0	...	60·4	...	·82	...	...		...	...

* Pressure reduced to M. S. L.

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR EACH MONTH AND THE YEAR 1933.

Cloud amount, (tenths of sky.)			Rainfall, inches.				Number of rainy days. (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																Station and month.
											8 hrs. L. M. T.									17 hrs. I. S. T.								
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the month or year.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month or year.	Departure from normal.	Mean	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Kabul (Afghanistan)
0·4	...	...	14·08	...	3·90	17	6	...	1·5	...	1	2	0	1	14	12	0	1	0	...	...	...	...	...	...	...	...	...	January
4·7	...	...	0·09	...	0·07	9	0	...	1·9	...	0	0	0	0	14	13	0	1	0	...	...	...	...	...	...	...	...	...	February
6·2	...	...	4·8	...	1·68	18	8	...	0·8	...	1	0	1	1	13	12	1	1	1	...	...	...	...	...	...	...	...	...	March
4·7	...	...	2·68	...	0·79	4	6	...	0·7	...	1	2	1	3	10	9	0	2	2	...	...	...	...	...	...	...	...	...	April
2·0	...	...	0·26	...	0·14	16	1	...	0·4	...	2	2	0	3	14	7	2	0	1	...	...	...	...	...	...	...	...	...	May
0·8	...	...	0·10	...	0·10	2	1	...	0·6	...	6	2	2	4	10	5	0	1	0	...	...	...	...	...	...	...	...	...	June
0·5	...	...	0	...	0	...	0	...	1·2	...	7	3	4	5	8	2	1	1	0	...	...	...	...	...	...	...	...	...	July
1·0	...	...	0	...	0	...	0	...	0·4	...	9	6	5	4	5	1	0	1	0	...	...	...	...	...	...	...	...	...	August
1·0	...	...	0·30	...	0·30	10	1	...	0·4	...	4	2	0	2	11	6	1	3	1	...	...	...	...	...	...	...	...	...	September
0·2	...	...	0	...	0	...	0	...	0·3	...	1	0	0	0	12	14	2	2	0	...	...	...	...	...	...	...	...	...	October
3·5	...	...	0·18	...	0·07	20, 26	0	...	0·4	...	1	1	1	0	12	13	2	0	0	...	...	...	...	...	...	...	...	...	November
5·6	...	...	1·88	...	1·04	4	4	...	0·1	...	6	1	0	0	10	9	1	4	0	...	...	...	...	...	...	...	...	...	December
2·5	...	...	24·42	...	3·90	1	27	...	0·7	...	39	21	14	23	133	103	10	17	5	...	...	...	...	...	...	...	...	...	*Year*
																													Hinaidi* (Baghdad). 6 hrs. (G. M. T.)
																													(IRAQ)
5·0	...	...	1·79	...	0·80	13	4	...	...	...	1	2	1	4	1	1	8	6	7	...	...	...	...	...	...	...	...	...	January
4·4	...	...	1·06	...	0·45	6	4	...	...	...	6	1	5	6	1	0	2	6	1	...	...	...	...	...	...	...	...	...	February
4·1	...	...	0·63	...	0·15	11,14	4	...	...	...	4	1	2	8	0	0	4	8	4	...	...	...	...	...	...	...	...	...	March
2·5	...	...	0·11	...	0·06	1	0	...	...	...	6	3	2	4	1	1	6	5	2	...	...	...	...	...	...	...	...	...	April
1·9	...	...	0	...	0	...	0	...	...	...	5	4	1	0	0	1	7	13	0	...	...	...	...	...	...	...	...	...	May
0	...	...	0	...	0	...	0	...	...	...	7	1	0	1	0	1	4	16	0	...	...	...	...	...	...	...	...	...	June
0	...	...	0	...	0	...	0	...	...	...	6	0	0	0	0	0	4	21	0	...	...	...	...	...	...	...	...	...	July
0·4	...	...	0	...	0	...	0	...	...	...	9	0	0	0	1	0	1	19	1	...	...	...	...	...	...	...	...	...	August
0·3	...	...	0	...	0	...	0	...	...	...	2	1	0	1	1	0	5	18	2	...	...	...	...	...	...	...	...	...	September
2·0	...	...	0	...	0	...	0	...	...	...	8	4	0	2	1	2	3	11	0	...	...	...	...	...	...	...	...	...	October
2·8	...	...	0·03	...	0·02	26	0	...	...	...	3	0	0	5	2	1	8	8	3	...	...	...	...	...	...	...	...	...	November
4·5	...	...	0·06	...	0·02	20	0	...	...	...	3	0	1	6	1	2	7	9	2	...	...	...	...	...	...	...	...	...	December
0·7	...	...	3·68	...	0·80	1	12	...	...	...	60	17	12	37	9	9	59	140	22	...	...	...	...	...	...	...	...	...	*Year*
																													Abadan* hrs. (L.M.T.)
																													(PERSIA—IRAN)
5·0	...	...	2·09	...	0·62	13	5	...	6·8	...	2	4	2	1	2	0	8	11	1	...	...	...	...	...	...	...	...	...	January
3·6	...	...	1·70	...	1·38	12	1	...	7·3	...	1	3	2	2	4	1	7	3	5	...	...	...	...	...	...	...	...	...	February
3·1	...	...	1·11	...	0·63	19	3	...	7·4	...	2	2	3	6	1	3	8	3	3	...	...	...	...	...	...	...	...	...	March
2·3	...	...	0·15	...	0·15	1	1	...	7·8	...	3	5	3	1	3	2	1	11	1	...	...	...	...	...	...	...	...	...	April
1·8	...	...	0	...	0	...	0	...	6·6	...	2	1	0	1	0	3	9	15	0	...	...	...	...	...	...	...	...	...	May
0	...	...	0	...	0	...	0	...	12·1	...	3	0	0	0	0	0	7	20	0	...	...	...	...	...	...	...	...	...	June
0	...	...	0	...	0	...	0	...	12·8	...	1	0	0	0	0	0	11	19	0	...	...	...	...	...	...	...	...	...	July
0	...	...	0	...	0	...	0	...	10·0	...	0	0	2	1	3	2	10	12	1	...	...	...	...	...	...	...	...	...	August
0·1	...	...	0	...	0	...	0	...	6·5	...	1	0	0	0	4	6	18	0	1	...	...	...	...	...	...	...	...	...	September
0·8	...	...	0·06	...	0·06	26	0	...	6·5	...	5	1	0	0	1	1	6	13	4	...	...	...	...	...	...	...	...	...	October
2·0	...	...	0	...	0	...	0	...	5·2	...	1	1	2	1	4	1	9	9	2	...	...	...	...	...	...	...	...	...	November
3·1	...	...	0·20	...	0·18	27	1	...	7·5	...	3	2	2	4	1	1	9	6	3	...	...	...	...	...	...	...	...	...	December
1·8	...	...	5·31	...	1·38	1	11	...	8·0	...	24	19	16	17	23	20	103	122	21	...	...	...	...	...	...	...	...	...	*Year*

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure inches.			Relative humidity. %		
		Mean 4 hrs.	Departure from normal.	Mean 14 hrs.	Mean.	Departure from normal.	Highest.	Month.	Mean.	Departure from normal.	Lowest.	Month.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Mean 14 hrs.	Mean 4 hrs.	Departure from normal.	Mean 14 hrs.	Mean 4 hrs.	Departure from normal.	Mean 14 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sind																						
†Drigh Road (Karachi)	77	29·737	...	29·675	87·9	...	103	IV	67·9	...	40	I	75·0	78·7	67·3	70·0	·599	...	·641	64	...	63
Baluchistan																						
Ormara . . .	15	29·792	...	29·721	...	...	...	...	70·6	...	45	I	76·1	79·1	70·2	71·7	·678	...	·691	72	...	68
Pasni . . .	10	29·807	...	29·733	86·1	−0·4	102	IX	69·1	+0·3	50	I	76·5	77·9	70·1	73·5	·668	...	·783	71	...	80
Panjgur . . .	3,177	26·661	...	26·585	86·3	+1·0	111	VI, VII	58·3	+1·3	24	I	67·9	78·5	59·5	65·1	·451	...	·504	61	...	48
Gwadar . . .	22	29·773	...	29·698	84·9	...	102	IX	70·5	...	52	I	76·1	78·7	70·9	71·9	·703	...	·705	75	...	70
Persia (Iran)																						
Charbar . . .	25	29·785	...	29·720	85·0	...	100	VII	71·4	...	53	I	77·4	79·3	71·0	73·4	·693	...	·758	71	...	74
Jask.	13	29·805	...	29·732	86·7	0	104	IX	73·2	0	54	I	79·1	81·6	72·4	75·2	·731	...	·810	71	...	73
Henjam . . .	100	29·707	...	29·627	85·3	...	103	VI, VII, IX	73·4	...	54	I	78·0	80·1	72·2	72·7	·742	...	·726	75	...	69
Bushire . . .	14	29·778	...	29·743	80·8	−1·1	100	VIII	67·8	−0·7	42	I	71·1	78·4	65·5	70·8	·584	...	·680	73	...	68
Ispahan . . .	5,817	24·27*	....	24·22*	78·7	+0·1	104	VII, VIII	46·3	+0·3	3	I	53·1	69·1	...	...	...	...	...	...	...	...
Tehran . . .	4,002	25·97*	...	25·91*	72·9	0	106	VII	50·3	−0·2	15	I	57·9	67·2	49·3	56·7	·287	...	·398	57	...	55
Meshed . . .	3,104	...	...	...	71·1	+1·4	102	VIII	...	...	...	...	50·8	61·9	45·3	51·4	·273	...	·294	71	...	55
‡Seistan . . .	2,000	28·227	...	28·139	84·1	+2·1	112	VII	57·0	+1·0	22	I	64·3	80·3	54·3	61·9	·328	...	·357	56	...	33
Arabia																						
Bahrein . . .	8	29·823	...	29·782	84·0	+0·8	107	VIII	71·1	−1·0	48	I	75·3	79·2	70·7	74·1	·727	...	·816	79	...	78
Baitul Falaj (Muscat) .	72	29·739	...	29·680	90·5	...	112	V, VII	73·1	...	52	II	80·1	85·0	70·4	71·7	·630	...	·609	61	...	51
Sharjah(a) . . .	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Aneroid.
(a) Data not available for the whole year.

AT 4 and 14 hrs. (G. M. T.) FOR THE YEAR 1933.

Cloud amount, (tenths of sky).			Rainfall, inches.				(Number of rainy days. (0·10 or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from																	STATION.
											4 hrs.										14 hrs.								
Mean 4 hrs.	Departure from normal.	Mean 14 hrs.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total of the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Sind
4·9	...	4·3	20·82	...	4·72	VII	15	...	9·9	...	75	56	10	1	1	28	152	24	18	4	22	10	4	5	144	161	12	2	Drigh Road (Karachi).†
																													Baluchistan
4·3	...	2·6	8·41	...	1·94	II	11	...	...	...	19	27	41	18	7	74	108	26	45	3	8	11	14	30	148	141	3	7	Ormara.
4·1	...	2·5	12·79	+6·65	5·08	IV	12	+3·8	6·9	...	36	28	54	21	6	18	91	79	32	4	1	5	18	55	153	146	4	9	Pasni.
2·0	...	2·5	7·26	+2·57	1·46	VII	12	+2·6	5·0	...	28	117	71	7	10	39	29	15	49	117	24	4	2	16	109	39	22	32	Panjgur.
4·8	...	3·6	12·71	...	3·30	IV	9	...	6·3	...	29	48	61	35	14	20	91	35	32	3	1	11	47	33	146	54	3	17	Gwadar.
																													Persia (Iran)
2·6	...	1·9	3·97	...	0·83	II	12	...	6·5	...	12	48	137	40	6	11	27	55	23	2	0	35	47	49	68	147	13	3	Charbar.
2·5	...	2·3	6·24	-1·73	2·86	IV	6	-3·2	...	...	41	22	72	91	3	0	11	67	52	2	2	1	60	45	49	64	123	14	Jask.
2·6	...	2·1	6·06	...	2·33	IV	11	...	5·6	...	66	91	40	10	6	61	10	28	40	5	20	20	23	14	220	21	3	25	Henjam.
1·7	...	1·4	5·53	-5·15	1·20	II	14	-4·2	9·4	...	86	80	50	28	13	3	12	88	3	11	4	4	14	28	29	72	198	0	Bushire.
1·8	...	2·3	1·65	-2·86	0·34	I	9	-4·1	2·6	...	7	15	5	3	7	47	26	23	231	18	38	44	18	3	69	21	14	139	Ispahan.
2·2	...	2·5	7·82	-1·65	0·83	XII	23	-4·4	2·5	...	27	33	13	4	3	14	7	3	261	11	8	7	11	9	52	29	10	228	Tehran.
3·5	...	3·6	8·91	-0·31	1·08	IV	21	-2·6	1·4	...	1	5	2	30	4	0	4	6	313	4	109	2	66	5	1	9	8	161	Meshed.
2·0	...	2·0	2·69	+0·67	0·80	II	7	-0·1	7·7	...	147	20	7	12	5	2	10	135	27	131	24	22	16	5	2	1	130	34	Seistan.‡
																													Arabia
2·5	...	2·2	1·69	-1·29	0·52	IV	4	-3·0	9·3	...	46	2	8	15	3	17	86	79	109	154	48	48	11	0	1	4	71	28	Bahrein.
2·5	...	2·1	4·76	...	1·42	IV	12	...	4·6	...	6	15	2	2	13	8	34	14	271	63	88	53	18	4	2	16	30	97	Baitul Falaj (Muscat).
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Sharjah. (a)

† Morning observations are recorded at 8 hrs. 32 mins. G.M.T

‡ Afternoon observations are recorded at 12 hrs. G. M. T.

TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. (L. M. T.) AT 4TH CLASS STATIONS FOR THE YEAR 1933.

STATION.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature 8 hrs. L. M. T. °F.	Mean wet bulb temperature 8 hrs. L. M. T. °F.	Vapour pressure, inches.		Relative humidity, %		Mean cloud amount, 8 hrs. L. M. T.	Rainfall, inches.				Number of rainy days, 0·10" or more.		Wind.	
	Mean.	Departure from normal.	Highest.	Month.	Mean.	Departure from normal.	Lowest.	Month.			Mean 8 hrs. L. M. T.	Departure from normal.	Mean 8 hrs. L. M. T.	Departure from normal.		Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Resultant direction 8 hrs. L. M. T.	Velocity in miles per hour.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Assam																							
Lumding	...	...	...	...	65·1	+0·6	40	I	69·5	67·7	·680	+·003	91	+3	...	51·31	+0·30	3·50	VIII	70	−14·4	...	...
Messa (Salona)	86·7	−1·4	100	VII, VIII	55·6	+2·1	40	I	72·7	69·1	·687	−·010	83	+5	...	77·01	−6·09	2·62	IX	103	−13·3	...	...
Bengal																							
Brahmanbaria	87·7	+0·8	97	IV	67·9	+0·3	45	I	76·2	71·7	·741	+·002	79	−1	...	79·78	−2·66	4·45	VIII	108	+8·9	...	...
Goalundo	...	...	101	VII	...	...	...	...	77·6	72·5	·756	+·017	77	−4	...	61·38	+5·28	4·47	VI	96	+21·4	...	...
Pabna	87·8	−0·9	106	IV	68·7	+0·9	42	I	75·5	...	...	...	...	...	...	74·19	+13·23	2·97	IX	104	+20·0	...	...
Punjab East and North																							
Gurdaspur	84·9	...	113	VI	61·0	...	30	I	68·6	62·0	·513	...	70	...	5·4	49·07	...	5·25	VIII	57	...	...	...
Punjab South West																							
Sargodha	88·2	...	115	VI	...	...	...	...	70·5	64·0	·571	...	69	...	...	24·24	...	3·61	VIII	25	...	...	1·7
Kashmir																							
Jammu	88·4	−1·4	112	VI	65·7	+0·6	39	I	7 ·0	61·7	·487	+·013	63	+4	2·8	47·25	+4·31	4·31	VIII	53	+2·2	...	...
Kargil	57·4	−2·5	96	VII	37·3	+5·1	-10	I	43·7	36·1	·185	...	58	...	5·2	11·70	+2·53	1·74	III	26	+4·7	...	...
N.-W. F. Province																							
Bannu	...	...	...	...	62·3	...	29	I	68·1	59·9	·464	...	60	...	0·5	16·57	...	4·00	VI	20	...	...	...
Razmak	66·2	...	94	VI	47·0	...	19	I	52·4	44·5	·245	...	56	...	2·1	28·16	...	1·45	VI	61	...	...	...
Wana	76·3	...	106	VI	48·9	...	14	I	54·3	47·8	·307	...	64	...	4·0	10·58	...	1·00	III	30	...	...	...
Bombay Deccan																							
Panchgani	...	...	...	...	62·1	...	51	I	68·1	60·9	·468	...	67	...	4·3	87·49	...	3·05	VI	99	...	...	8·8
Hyderabad, North																							
Bida	86·4	−2·3	101	IV	68·5	+0·5	56	XII	74·1	66·1	·546	−·087	65	0	5·4	45·33	+7.58	2·37	IX	81	+26·6	...	7·3
Mysore																							
Jogimatti	79·4	...	94	IV	62·7	...	4	I	69·0	64·4	·550	...	78	...	...	45·65	...	3·95	VIII	71	...	...	8·7
Tibet																							
Yatung (Chumbi)	57·5	+2·2	74	VIII	34·7	−1·7	14	I	41·3	40·2	·259	+·002	92	+6	4·2	28·06	−14·84	1·27	IV	82	−23·6	...	...
Persia (Iran)																							
*Zahidan	...	...	...	...	49·3	...	22	I	62·1	58·6	·525	...	81	...	2·6	2·84	...	1·00	XI	11	...	...	...

* Records observations at 7 hrs. (L. M. T.).

TABLE V.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. (L. M. T.) AT 5TH CLASS STATIONS FOR THE YEAR 1933.

DIVISION.	STATION.	Rainfall, inches.				Number of rainy days, (·10" or more).		DIVISION.	STATION.	Rainfall, inches.				Number of rainy days, (·10" or more).	
		Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.			Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
Bengal	Bankura	61·25	+4·25	3·64	VII	82	+7·7	Kashmir	Sonamarg	74·88	+3·40	3·61	III	111	+5·5
	Rampur Boalia	69·89	+13·79	6·06	VI	89	+14·4		Gurez	51·96	...	2·31	I	108	...
	Sirajganj	68·19	+3·80	3·86	VIII	86	+3·2	Baluchistan	Harnai	15·50	+2·16	1·79	VII	30	+6·1
	Rangpur	90·41	+8·38	7·85	VI	60	−23·2		Pishin	9·37	+0·63	1·25	I	25	+4·5
	Cooch Behar	109·73	−37·28	4·37	VII	108	+8·1	Rajputana, East	Udaipur	36·48	+12·70	5·17	VII	42	+9·3
Bihar	Muzaffarpur	51·79	+12·94	5·08	VII	63	+6·1	Bombay, Deccan	Khandala	226·32	...	18·75	VII	105	...
	Chapra	37·45	−6·97	2·35	VII	61	+7·3	Hyderabad, North	Parbhani	45·05	+12·08	2·90	VIII	71	+26·3
	Arrah	47·14	+1·52	5·80	VIII	72	+15·7	Madras, Southeast	Palamcottah	34·56	+6·22	7·98	XI	31	−10·3
	Dehri	34·89	−7·58	3·55	VIII	56	+1·2	Madras Deccan	Anantapur	28·62	+3·58	4·25	VIII	45	+9·9
United Provinces, West	Meerut	42·36	+10·40	4·76	VI	60	+21·5	Sikkim	Gnatong	125·40	−22·08	3·10	VII	183	+1·1
Punjab, East and North	Dharampore	72·35	...	5·63	IX	98	...		Lachung	60·98	−3·95	1·25	VII	167	+5·9
	Kallang	23·55	+0·44	2·10	I	51	+1·6								
	Dalhousie	96·07	+11·57	4·45	VII	123	+35·1								
	Bakloh	107·38	...	5·03	VII	105	...								

TABLE VI—ABSTRACT OF OBSERVATIONS RECORDED AT 10 HRS. (L. M.T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1933.

Station, height of bar. cistern above mean sea level in feet and month.	Pressure reduced to 32°F and standard gravity inches.			Temperature of air °F.			Wet-bul temperature F.		Vapour pressure in Ins.				Relative humidity				Cloud amount.	Wind direction at 10 hrs. Number of winds from—								
	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean (L. M. T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs. (L. M. T.)	From minimum.	Mean 10 hrs. (L. M. T.)	Mean of daily Means.	Departure from Normal.	From minimum.	Mean 10 hrs. (L. M. T.)	Mean of daily Means.	Departure from normal.	Mean 10 hrs. L. M. T.	N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Calcutta (21)																										
January	30·050	29·975	+·012	67·9	64·4	−0·8	52·5	58·8	·376	·378	·389	−·042	86	55	68	−2	1·9	6	5	1	1	0	1	0	16	1
February	29·948	·872	−·030	72·6	73·0	+2·7	62·1	67·7	·536	·584	·561	+·076	88	67	73	+7	3·2	2	1	1	1	2	6	1	8	6
March	·865	·796	−·005	84·9	81·2	+1·9	65·6	72·0	·582	·615	·570	−·073	77	51	56	−11	1·5	3	1	0	0	1	14	4	5	3
April	·785	·723	+·027	87·8	84·6	−0·4	71·7	70·7	·752	·770	·743	−·054	85	60	67	−3	2·0	2	0	0	2	6	15	2	3	0
May	·706	·649	+·043	83·2	84·9	−0·8	74·0	80·5	·832	·936	·878	−·005	89	71	77	+2	4·4	1	0	4	3	3	17	2	0	1
June	·500	·460	−·034	85·1	81·9	+0·4	77·9	81·2	·925	·994	·963	−·008	91	79	88	0	7·5	0	1	4	7	4	12	0	0	2
July	·543	·507	+·022	84·5	83·4	+0·4	77·9	80·4	·939	·982	·968	−·003	93	83	87	0	8·4	1	1	8	5	5	7	1	2	1
August	·644	·604	+·068	84·1	85·1	+0·7	76·9	80·1	·908	·975	·944	−·023	93	84	87	−1	9·1	2	0	4	5	8	9	0	0	3
September	·686	·633	−·004	84·8	83·2	+0·6	77·1	80·0	·921	·957	·943	−·009	95	81	87	+1	6·9	1	1	6	7	2	8	0	3	2
October	·833	·775	−·010	84·0	80·8	+0·8	73·1	76·8	·819	·830	·828	+·013	94	71	82	0	4·3	4	4	3	2	3	4	2	9	0
November	·950	·886	−·023	78·8	73·9	+1·5	63·7	65·6	·565	·569	·578	0	89	59	73	−1	1·6	10	9	0	0	0	0	0	11	0
December	·992	·921	−·052	72·0	67·0	+1·7	56·5	63·5	·137	·474	·462	+·024	90	60	73	+2	1·1	14	4	2	1	1	1	0	7	1
Year	29·792	29·733	+·001	81·2	78·7	+0·7	69·1	73·9	·716	·755	·736	−·008	89	68	76	−1	4·3	46	27	33	34	35	94	12	64	20
Agra (554)																										
January	29·531	29·457	+·019	58·5	53·7	−6·4	...	47·2	...	·175	·157	−·151	...	37	41	−20	3·9	3	0	3	1	0	3	15	6	0
February	·403	·333	−·044	67·4	63·0	−1·8	...	55·2	...	·273	·251	−·052	...	41	44	−8	3·7	3	2	5	2	0	1	8	5	2
March	·350	·278	+·004	70·6	73·7	−3·0	...	59·3	...	·234	·212	−·125	...	24	29	−11	1·9	8	2	3	0	6	5	5	2	0
April	·232	·167	+·024	88·2	81·3	−0·8	...	63·6	...	·280	·278	−·091	...	21	28	−1	2·6	6	1	2	2	2	8	3	6	0
May	·140	·072	+·039	90·5	87·7	−0·3	...	71·8	...	·527	·483	+·009	...	39	40	+7	3·1	3	2	4	7	1	3	6	3	2
June	28·909	28·851	−·069	92·1	90·9	−2·5	...	76·1	...	·679	·636	−·068	...	81	68	+20	4·0	1	3	4	5	1	2	8	6	0
July	·972	·926	+·018	86·4	83·0	−3·0	...	79·3	...	·903	·892	−·035	...	71	76	0	7·7	0	1	8	4	1	7	3	3	4
August	29·065	29·009	+·037	83·7	81·8	−2·4	...	78·7	...	·911	·910	−·003	...	79	82	+4	8·5	1	1	7	3	1	7	3	0	8
September	·121	·067	−·028	83·7	80·8	−3·4	...	77·5	...	·858	·861	+·047	...	76	85	+15	6·4	3	4	7	3	1	2	4	4	2
October	·291	·236	−·087	83·4	75·4	−4·0	...	70·4	...	·567	·578	+·088	...	51	63	+12	1·3	1	3	1	1	1	6	10	7	1
November	·438	·370	−·025	75·7	65·0	−3·7	...	59·8	...	·302	·335	−·008	...	35	51	+2	1·5	3	1	1	3	3	4	7	4	4
December	·461	·393	−·067	67·4	58·2	−3·0	...	50·5	...	·311	·336	+·035	...	47	61	+4	0·9	1	0	2	5	4	8	4	4	3
Year	29·242	29·180	−·011	79·7	74·5	−3·9	...	66·3	...	·502	·495	−·029	...	50	56	+2	3·8	33	20	47	36	21	56	76	50	26
Lahore (702)																										
January	29·401	29·339	+·048	53·4	48·8	−4·2	...	46·5	...	·229	·210	−·059	...	58	61	−9	3·8	7	0	0	1	1	0	8	7	7
February	·266	·213	−·033	64·8	59·4	+2·1	...	54·5	...	·287	·267	−·024	...	48	53	−9	3·4	3	3	3	2	1	2	9	2	3
March	·196	·153	+·021	72·3	67·1	−1·9	...	59·1	...	·325	·304	−·056	...	43	47	−7	4·6	1	2	3	4	1	1	6	8	5
April	·109	·062	+·062	51·4	76·1	−4·8	...	64·2	...	·372	·367	−·028	...	27	43	+2	5·4	5	5	2	3	2	0	0	8	5
May	28·977	28·922	+·052	92·7	86·7	−2·2	...	71·1	...	·470	·465	+·011	...	32	40	+4	3·8	5	1	1	7	3	0	4	4	6
June	·762	·707	−·031	97·7	93·6	+0·6	...	77·2	...	·658	·654	+·027	...	33	43	−1	2·3	2	5	2	7	3	3	4	2	2
July	·793	·747	+·014	90·6	89·0	−0·1	...	79·5	...	·860	·867	+·004	...	63	66	+1	5·0	1	2	2	5	4	3	2	0	12
August	·906	·855	+·036	85·2	83·2	−3·9	...	72·7	...	·910	·956	−·052	...	75	85	+14	7·9	1	1	4	10	5	0	1	2	7
September	·999	·944	+·007	85·4	81·8	−3·0	...	74·5	...	·833	·842	+·015	...	69	76	+15	4·4	2	1	4	3	1	1	1	0	7
October	29·143	29·087	−·027	84·1	75·8	+0·1	...	67·8	...	·465	·455	+·010	...	40	52	0	0·3	2	0	1	5	6	1	0	6	10
November	·285	·232	−·019	71·0	63·3	+0·1	...	59·3	...	·345	·363	+·047	...	46	62	+5	1·1	1	0	0	5	1	0	2	4	19
December	·303	·249	−·071	63·0	56·7	+2·1	...	54·7	...	·320	·312	+·041	...	55	64	+1	3·6	1	0	0	5	0	0	1	3	21
Year	29·095	29·043	+·007	78·5	73·7	−1·2	...	66·0	...	·510	·503	+·012	...	51	58	+2	3·8	31	20	22	55	28	11	38	46	114

TABLE VI—Abstract of Observations recorded at 10 hrs. (L. M. T.) and corrected daily means at 13 first class Stations in India during each month and the year 1933.

Station, height of bar. cistern above mean sea level in feet and month.	Pressure reduced to 32 °F and standard gravity, inches.			Temperature of air, °F.			Wet bulb temperature, °F.		Vapour pressure, inches.				Relative humidity, —%—				Cloud amount.	Wind direction at 10 hrs. Number of winds from—								
	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs. (L. M. T.)	From minimum.	Mean 10 hrs. (L. M. T.)	Mean of daily means	Departure from normal.	From minimum.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L. M. T.)	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
SRINAGAR (5204)																										
January	25·010	24·959	0	31·0	29·7	−1·0	...	30·1	...	·154	·141	−·014	...	89	92	+8	7·1	1	2	0	2	1	1	3	5	16
February	24·941	·892	−·013	40·5	39·6	+6·6	...	38·1	...	·203	·197	+·023	...	81	82	−1	7·1	4	1	2	4	2	1	1	6	7
March	·930	.883	+.011	47·5	46·1	+0·7	...	43·6	...	·241	·234	−·021	...	74	77	−4	6·6	1	3	3	3	1	3	3	7	7
April	·899	·863	+·011	54·3	51·6	−4·2	...	49·0	...	·287	·286	−·044	...	68	73	−5	5·9	3	1	4	6	3	0	5	6	2
May	·812	·772	−·010	68·0	64·7	+0·6	...	58·4	...	·373	·346	−·096	...	55	56	−22	3·2	1	3	0	5	4	0	4	4	10
June	·682	·642	−·022	74·2	71·3	+0·7	...	63·9	...	·473	·464	−·071	...	56	56	−23	3·3	5	1	0	5	0	1	4	3	11
July	·629	·592	−·006	79·5	76·7	+3·2	...	70·5	...	·640	·626	−·013	...	64	65	−16	4·3	4	2	0	2	1	3	2	8	9
August	·723	·682	+·046	74·0	73·6	+2·2	...	67·8	...	·647	·632	+·019	...	77	78	−2	7·0	6	4	1	5	0	0	2	5	8
September	·817	·765	−·006	69·3	66·8	+1·2	...	62·6	...	·496	·478	−·020	...	70	72	−	3·7	2	1	4	2	2	1	2	2	14
October	·954	·901	−·002	59·0	55·4	+0·7	...	52·9	...	·335	·329	+·027	...	67	75	−4	2·5	2	0	1	3	2	0	0	2	21
November	25·020	·962	−·002	48·1	43·4	−1·7	...	43·6	...	·232	·222	−·011	...	70	75	−4	3·7	2	1	0	3	4	0	2	2	16
December	24·988	·928	−·061	41·3	40·0	+3·6	...	38·0	...	·195	·183	+·007	...	74	75	−6	5·2	3	0	0	2	5	0	2	0	19
Year	24·867	24·820	−·005	57·2	54·9	+1·0	...	51·5	...	·356	·345	−·018	...	70	73	−7	5·0	34	19	15	42	25	10	30	50	140
PESHAWAR (1164)																										
January	28·941	28·885	+·020	53·9	48·8	−1·7	...	44·0	...	·156	·166	...	...	40	38	...	4·4	2	3	4	6	2	4	0	2	8
February	·860	·786	−·032	61·0	56·5	+2·5	...	50·2	...	·215	·219	...		43	40	...	5·0	2	4	6	5	1	0	0	1	9
March	·769	·722	−·005	67·1	66·1	+2·7	...	56·6	...	·325	·322	...	...	50	46	...	6·0	8	5	5	4	2	0	0	5	2
April	·692	·640	+·030	75·3	69·8	−3·6	...	61·9	...	·375	·368	...	...	45	42	...	5·6	9	1	4	2	1	0	2	4	7
May	·527	·470	+·009	89·6	88·2	0	...	69·3	...	·436	·421	...	...	35	31	...	2·9	8	14	4	1	0	0	0	3	1
June	·312	·247	−·055	96·2	91·2	+0·9	...	73·2	...	·500	·483	...	...	31	27	...	1·9	8	6	7	0	0	0	1	1	1
July	·317	·263	−·009	89·9	91·6	+2·0	...	80·2	...	·852	·805	...	...	57	49	...	3·7	9	12	2	0	2	0	1	5	0
August	·454	·390	+·048	87·0	84·8	−2·3	...	79·0	...	·880	·863	...	...	69	63	...	7·1	8	14	2	1	0	1	0	2	3
September	·548	·478	−·021	85·8	82·5	+0·6	...	75·3	...	·724	·712	...	...	60	55	...	2·1	9	10	2	3	1	0	0	0	5
October	·705	·674	−·016	79·3	73·5	+1·2	...	63·8	...	·381	·368	...	...	37	34	...	0·8	5	13	3	1	0	1	0	3	5
November	·808	·764	−·051	69·0	63·0	+2·6	...	55·3	...	·253	·276	...	...	38	37	...	3·3	7	8	4	0	0	0	1	0	10
December	·856	·796	−·036	60·6	53·9	+2·1	...	51·0	...	·248	·265	...	...	48	44	...	7·0	4	0	2	6	2	0	0	1	16
Year	28·649	28·593	−·014	76·3	72·1	+0·6	...	63·3	...	·445	·439	...	...	46	42	...	4·1	79	90	45	35	11	6	5	27	67
QUETTA(5405)																										
January	24·771	24·710	+·012	39·3	37·4	−2·6	...	35·9 (i)	...	·149 (i)	·143 (i)	...	...	51 (i)	47 (i)	...	4·9	1	0	0	3	4	1	4	4	14
February	·695	·652	−·030	43·1	42·5	−0·3	...	38·6	...	·173	·158	...	...	59	49	...	6·1	1	0	1	4	4	0	3	3	12
March	·465	·650	−·012	55·2	50·6	−2·5	...	43·3	...	·161	·151	...	...	36	33	...	4·8	5	1	0	1	9	0	1	3	11
April	·658	·614	−·020	64·9	59.9	−2·1	...	50·4	...	·208	·194	...	...	35	31	...	5·2	1	0	0	0	6	3	4	4	12
May	·615	·569	−·020	79·2	70·7	+0·5	...	57·0	...	·223	·190	...	...	23	20	...	2·7	1	0	0	0	4	0	0	2	24
June	·482	·442	−·035	87·5	77·1	+0·7	...	58·9	...	·184	·148	...	...	14	11	...	0·6	2	0	0	0	1	3	3	6	15
July	·460	·428	+·002	86·9	81·7	+1·5	...	64·6	...	·363	·318	...	...	30	27	...	3·5	1	0	0	2	8	2	3	5	10
August	·517	·474	−·006	83·5	80·4	+2·9	...	65·4	...	·423	·358	...	...	37	30	...	2·5	5	3	2	1	8	3	0	1	8
September	·617	·568	−·026	78·1	69·8	+0·4	...	54·7	...	·183	·146	...	...	17	13	...	0·5	4	1	1	0	0	1	5	10	8
October	·738	·689	−·035	66·6	58·1	+0·1	...	45·9	...	·084	·073	...	...	13	10	...	0·5	2	1	0	0	0	1	5	8	14
November	·795	·743	−·021	56·6	50·5	+2·0	...	42·7	...	·133	·119	...	...	32	26	...	2·7	5	0	0	0	5	2	0	7	11
December	·754	·699	−·050	50·2	45·6	+2·7	...	40·1	...	·139	·131	...	...	40	33	...	5·5	3	1	0	4	2	0	3	5	13
Year	24·631	24·604	−·019	65·9	60·4	+0·3	...	49·8	...	·202	·177	...	...	32	27	...	3·3	31	7	4	15	51	16	31	58	152

(i) Mean of 21 days.

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 10 HRS. (L. M. T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1923.

Stations, height of bar cistern above mean sea level in feet and month.	Pressure reduced to 32°F and standard gravity, inches.			Temperature of air °F.			Wet bulb temperature F		Vapour pressure, inches.				Relative humidity %				Cloud amount	Wind direction at 10 hrs.—Number of winds from								
	Mean 10 hrs (L. M.T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs (L.M.T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs. (L. M. T.)	From minimum	Mean 10 hrs. (L.M.T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs. (L.M.T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L.M.T.)	N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Jaipur (1431)																										
January	28·650	28·584	+·046	64·6	57·3	2·6	...	49·6	...	·159	·167	−·101	...	26	37	−19	1·4	6	6	8	2	1	1	1	2	4
February	·538	·476	−·016	71·6	65·5	+1·3	...	56·4	...	·256	·245	−·017	...	33	43	−4	2·7	2	2	13	1	1	3	6	3	3
March	·500	·435	+·028	82·5	75·5	+0·6	...	60·6	...	·257	·221	−·084	...	22	30	−9	1·1	6	3	6	3	3	2	1	3	4
April	·401	·339	+·038	87·6	82·0	−4·3	...	65·6	...	·332	·316	−·017	...	28	34	+4	2·4	0	4	4	3	5	4	2	3	5
May	·310	·247	+·049	90·9	86·7	−4·9	...	72·7	...	·558	·517	+·069	...	41	43	+8	2·7	1	3	3	3	2	5	6	4	4
June	·108	·057	−·030	92·6	89·7	−6·9	...	75·1	...	·627	·601	−·055	...	46	50	−2	3·5	2	0	0	1	0	2	16	5	4
July	·127	·083	+·014	86·1	83·7	−1·0	...	77·5	...	·828	·807	−·027	...	67	70	−6	6·6	1	3	5	1	1	8	10	0	2
August	·199	·156	+·023	80·5	79·0	−3·3	...	76·2	...	·845	·842	+·026	...	82	87	+9	9·0	2	2	3	2	1	7	6	3	5
September	·268	·213	−·045	83·2	79·5	−2·9	...	74·7	...	·746	·758	+·066	...	67	78	+9	5·1	4	2	6	2	1	1	7	5	2
October	·441	·387	−·026	84·9	75·8	−2·1	...	67·3	...	·441	·428	+·026	...	37	50	+4	0·7	1	4	1	0	1	2	8	4	7
November	·555	·494	−·022	78·8	67·5	−1·4	...	59·7	...	·257	·266	−·031	...	27	43	−4	0·8	1	4	2	2	4	5	3	1	8
December	·506	·501	−·063	70·5	60·9	−0·6	...	56·2	...	·264	·255	−·012	...	36	48	−5	0·5	2	2	5	7	3	5	1	4	2
Year	28·389	28·331	0	81·1	75·3	−1·8	...	66·0	...	·463	·452	−·013	...	43	51	−2	3·0	28	35	56	27	23	45	61	40	50
Bombay (37)																										
January	29·943	29·877	−·017	75·5	75·9	+2·1	63·5	67·3	·536	·564	·583	−·008	79	63	70	−2	1·5	1	10	16	3	0	0	0	1	0
February	·897	·831	−·041	76·7	75·1	+1·0	64·9	69·1	·567	·607	·604	−·015	81	66	71	0	1·4	3	3	14	7	1	0	0	0	0
March	·861	·799	−·017	82·0	79·0	+1·8	68·8	72·2	·648	·689	·671	−·066	80	61	69	−6	0·8	8	4	5	3	3	2	1	5	0
April	·826	·769	+·018	85·8	83·1	+1·9	73·3	76·9	·763	·803	·792	−·049	80	66	71	−6	1·4	8	0	0	0	0	6	5	11	0
May	·737	·684	−·029	86·7	84·2	+0·4	76·2	78·8	·857	·876	·871	−·018	85	69	76	0	4·4	3	0	1	2	2	3	7	13	0
June	·646	·608	−·004	84·8	82·6	+0·8	76·3	79·3	·868	·925	·905	−·033	88	78	82	−1	6·8	0	0	0	0	6	9	9	6	0
July	·657	·625	+·014	83·3	81·5	+2·4	76·1	78·6	·863	·915	·892	−·029	85	81	84	−3	7·9	2	0	0	0	0	2	12	15	0
August	·712	·673	+·005	81·4	79·9	+0·9	74·9	77·3	·841	·881	·862	−·023	92	83	85	−2	7·3	1	0	1	0	3	2	14	10	0
September	·721	·674	−·056	81·9	80·2	+1·3	74·7	77·4	·836	·879	·856	−·016	92	81	84	−2	6·1 (*b*)	4	1	3	2	3	6	5	6	0
October	·799	·742	−·044	83·2	81·7	+1·3	72·3	76·3	·744	·817	·797	−·055	83	72	76	−5	3·1	3	2	10	5	3	2	0	0	0
November	·884	·826	−·026	81·7	81·3	+1·9	69·7	72·5	·668	·688	·701	−·015	80	64	70	−3	2·2	1	2	16	8	1	2	0	0	0
December	·915	·853	−·039	77·1	77·0	+0·5	65·3	69·0	·566	·601	·603	−·036	78	65	69	−3	1·9	2	0	19	4	0	0	0	0	0
Year	29·800	29·747	−·019	81·7	80·1	+1·3	71·3	74·6	·730	·768	·761	−·031	84	71	76	−2	3·7	36	28	91	24	22	84	58	67	0
Poona (1843)																										
January	28·152	28·078	0	74·6	68·9	−0·4	...	60·4	...	·355	·345	...	...	41	49	...	2·4	4	9	11	3	0	0	0	2	2
February	·090	·020	−·029	79·4	72·8	−0·6	...	61·3	...	·318	·340	...	...	32	43	...	1·0	1	9	5	3	0	2	1	3	4
March	·066	27·998	−·002	86·4	78·0	−1·8	...	63·7	...	·309	·347	...	...	25	38	...	0·3	4	10	6	5	0	0	2	3	1
April	·029	·965	+·024	90·7	81·9	−2·0	...	66·6	...	·352	·410	...	...	25	40	...	1·3	7	8	2	2	1	0	6	4	0
May	27·950	·897	−·009	85·9	81·2	−2·7	...	71·9	...	·605	·659	...	...	50	67	...	4·7	2	3	5	3	1	3	4	8	4
June	·862	·832	+·001	81·0	76·5	−2·6	...	72·7	...	·692	·702	...	...	67	77	...	7·6	0	0	0	0	2	5	16	7	0
July	·871	·838	+·016	78·7	75·2	−0·2	...	72·3	...	·710	·696	...	...	73	73	...	8·8	0	0	0	0	0	7	19	5	0
August	·923	·884	+·017	77·1	73·7	−0·5	...	72·0	...	·718	·718	...	...	78	86	...	8·4	0	0	0	0	0	2	20	5	4
September	·931	·883	−·045	79·0	74·2	−0·5	...	71·9	...	·691	·690	...	...	70	80	...	7·2	0	2	5	1	0	7	10	2	3
October	28·020	·962	−·036	81·6	75·7	−0·6	...	69·8	...	·590	·599	...	...	55	66	...	4·4	0	3	18	7	0	0	2	0	1
November	·106	28·044	−·008	80·1	73·5	+1·4	...	65·6	...	·456	·470	...	...	44	56	...	2·2	0	2	21	2	1	0	0	1	3
December	·125	·058	−·036	74·0	68·2	−0·2	...	61·7	...	·400	·390	...	...	49	56	...	2·6	0	5	17	7	1	0	0	0	1
Year	28·010	27·955	−·009	80·7	75·0	−0·0	...	67·5	...	·516	·531	...	...	51	61	...	4·2	16	51	88	33	6	26	80	40	23

(*b*) Mean of 29 days.

TABLE VI.—Abstract of observations recorded at 10 hrs. (L. M. T.) and corrected daily means at 13 first class Stations in India during each month and the year 1933.

Station, height of bar cistern above mean sea level in feet and month.	Pressure reduced to 32° F and standard gravity, inches.			Temperature of air °F.			Wet bulb temperature °F.		Vapour pressure, inches.				Relative humidity. %				Cloud amount.	Wind direction at 10 hrs. — Number of winds from								
	Mean 10 hrs. (L.M.T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L.M.T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.(L. M. T.)	From minimum.	Mean 10hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean (L. M. T.)	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		18	19	20	21	22	23	24	25	26	27
Bangalore (3021)																										
January	26·979	26·922	+·004	72·4	68·9	+1·4	...	62·4	...	·448	·444	+·036	...	56	60	−2	4·0	0	8	16	4	1	2	0	0	0
February	·944	·880	−·021	78·2	74·0	+2·0	...	63·2	...	·408	·417	+·010	...	42	48	−6	2·3	0	0	12	3	7	1	3	1	1
March	·927	·866	+·002	82·1	77·3	+0·6	...	65·1	...	·428	·427	−·020	...	39	42	−8	2·2	0	5	9	8	4	2	6	0	0
April	·898	·838	+·028	84·4	81·0	+1·1	...	69·9	...	·561	·524	−·031	...	48	50	−5	3·2	0	1	1	4	2	6	6	7	3
May	·836	·782	+·007	79·8	77·2	−1·3	...	71·1	...	·651	·636	+·031	...	66	69	+6	7·1	0	0	3	1	5	2	17	3	0
June	·804	·769	+·014	75·6	72·9	−1·1	...	68·3	...	·609	·602	−·021	...	69	73	−1	8·5	0	0	0	0	0	7	23	0	0
July	·805	·770	+·010	73·9	71·8	−0·2	...	68·7	...	·645	·641	+·034	...	77	79	+2	9·6	1	0	0	0	0	3	25	2	0
August	·832	·787	+·011	74·8	72·4	+0·6	...	69·8	...	·668	·666	+·053	...	77	80	+1	9·2	1	0	0	0	4	5	15	6	0
September	·833	·785	−·021	74·6	71·7	−0·1	...	68·3	...	·621	·621	−·002	...	73	76	−4	8·4	0	0	4	0	0	9	12	3	2
October	·865	·813	−·026	74·4	71·6	−0·2	...	68·8	...	·641	·639	+·031	...	75	80	+2	8·4	0	4	5	2	4	5	6	2	3
November	·929	·876	−·003	75·6	71·8	+2·2	...	66·4	...	·545	·551	+·012	...	62	68	−7	5·0	2	12	10	2	0	1	0	0	3
December	·934	·879	−·035	71·3	68·2	+0·7	...	63·3	...	·489	·498	+·032	...	64	70	0	4·5	5	9	11	3	2	0	0	0	1
Year	26·882	26·831	−·002	76·4	73·2	+0·4	...	67·1	...	·550	·555	+·013	...	62	66	−2	6·0	9	39	68	27	29	43	113	24	13
Madras (22																										
January	29·975	29·915	−·011	81·3	76·0	+0·6	...	73·0	...	·698	·691	+·006	...	65	74	−5	6·1	2	13	6	0	0	0	0	2	8
February	·929	·866	−·030	83·4	76·0	− 0·4	...	73·3	...	·682	·689	−·026	...	60	71	−7	4·0	1	5	7	6	2	2	0	1	4
March	·894	·834	−·001	84·4	77·4	−1·6	...	75·5	...	·769	·773	−·029	...	65	75	−3	4·1	1	0	3	9	9	2	5	2	0
April	·827	·770	+·015	89·4	83·5	−0·1	...	79·8	...	·887	·931	+·031	...	64	79	+1	4·7	0	0	0	7	15	3	5	0	0
May	·736	·684	+·021	91·3	86·6	−1·6	...	79·8	...	·859	·923	+·027	...	59	74	+4	7·0	0	0	2	2	10	4	10	1	2
June	·685	·634	+·005	91·6	88·9	+1·1	...	77·2	...	·730	·811	−·022	...	50	64	−2	7·1	1	0	0	0	0	5	20	4	0
July	·682	·642	−·006	89·2	86·5	+1·3	...	77·9	...	·802	·871	+·059	...	58	72	+4	7·8	0	0	0	1	2	9	16	3	0
August	·730	·681	+·005	87·7	84·7	+0·7	...	78·2	...	·835	·884	+·048	...	64	75	+2	6·9	0	0	0	4	5	8	10	2	2
September	·736	·682	−·025	88·3	85·0	+1·6	...	76·9	...	·768	·814	−·034	...	58	68	−9	7·6	1	1	2	0	2	4	16	2	2
October	·795	·742	−·033	82·6	79·9	−0·7	...	76·9	...	·847	·869	+·013	..	77	85	+2	8·0	3	2	0	1	1	1	6	12	5
November	·682	·629	−·027	81·7	77·0	+0·1	...	75·9	...	·818	·810	+·014	...	76	82	−2	7·4	1	4	4	1	1	0	1	9	9
December	·908	·856	−·054	79·2	75·0	−0·6	...	72·7	...	·719	·718	−·011	...	73	80	−2	6·6	5	8	3	2	1	0	0	4	8
Year	29·815	29·761	−·012	85·8	81·5	+0·1	...	76·4	..	·785	·815	+·006	...	64	75	−1	6·4	15	33	27	53	48	38	89	42	40
Kodaikanal (7688)																										
January	22·816	22·783	+·013	59·1	53·6	+1·1	...	49·8	...	·265	·301	+·045	...	54	68	+6	4·6	1	6	12	8	3	0	0	0	1
February	·816	·780	−·001	59·8	56·2	+2·6	...	48·5	...	·228	·278	+·016	...	45	67	+6	2·9	6	9	6	3	0	0	0	1	3
March	·817	·785	+·002	62·5	57·4	+1·2	...	50·5	...	·247	·291	+·023	...	44	63	+7	2·5	3	12	7	6	1	0	0	1	1
April	·822	·787	+·024	63·5	59·6	+0·7	...	55·5	...	·358	·385	+·046	...	62	78	+13	4·5	6	12	5	5	1	0	0	1	0
May	·767	·735	−·007	62·7	58·9	−0·8	...	57·3	...	·414	·426	+·045	...	73	85	+13	7·2	4	8	2	3	2	2	2	4	4
June	·741	·713	+·013	61·5	57·6	+0·7	...	55·9	...	·388	·399	+·023	...	72	80	+2	6·9	0	0	0	0	0	2	8	19	1
July	·731	·706	+·019	59·6	56·6	+1·4	...	55·5	...	·397	·401	+·024	...	78	84	+1	7·8	1	1	1	1	1	1	8	17	0
August	·749	·719	+·018	59·1	56·3	+0·8	...	56·3	...	·424	·426	+·046	...	85	89	+5	8·6	5	5	1	1	1	0	2	9	7
eptember	·749	·716	0	59·4	55·9	+0·5	...	55·8	...	·409	·413	+·033	...	81	87	+3	8·6	0	4	1	1	4	0	7	9	4
October	·764	·731	−·008	58·7	55·8	+0·5	...	55·1	...	·397	·403	+·025	...	81	87	+1	8·1	1	2	3	4	1	1	8	8	3
November	·800	·770	+·011	56·5	53·1	−0·4	...	52·7	...	·361	·369	+·023	...	79	87	+4	7·4	5	7	5	6	1	0	0	4	2
December	·787	·755	−·005	58·1	53·2	+0·1	...	50·8	...	300	·325	+·049	...	64	80	+14	5·1	3	7	6	7	0	1	1	5	1
Year	22·780	22·748	+·006	60·0	56·1	+0·7		53·6	...	·349	·368	+·033	...	68	80	+7	6·2	36	73	49	45	15	7	36	78	27

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 10 HRS. (L. M. T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1933.

Station, height of bar cistern above mean sea level in feet and month.	Pressure reduced to 32°F and standard gravity, inches.			Temperature of air °F.			Wet bulb temperature °F.		Vapour pressure, inches.				Relative humidity %				Cloud amount.	Wind direction at 10 hrs.—Number of winds from								
	Mean 10 hrs. (L.M.T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs. (L. M. T.)	From minimum.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L. M. T.)	N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Trivandrum (200)																										
January . .	29·677	29·635	-·028	82·0	80·8	+3·7	...	72·9	...	·690	·717	+·051	...	68	75	+1	5·0	4	9	2	1	3	1	2	3	6
February . .	·684	·634	-·015	82·6	80·0	+1·4	...	74·0	...	·736	·771	+·036	...	66	79	+6	4·9	3	1	0	0	6	3	9	2	4
March . . .	·674	·617	-·010	84·8	80·9	+0·6	...	75·8	...	·767	·798	+·023	...	74	81	+5	4·5	9	0	0	0	4	5	10	2	1
April . . .	·617	·580	0	84·8	82·1	+0·2	...	78·2	...	·887	·900	+·072	...	75	85	+6	6·6	15	1	0	1	1	1	4	5	2
May . . .	·614	·574	+·003	81·6	79·2	-2·1	...	77·8	...	·899	·910	+·067	...	84	94	+11	8·9	6	1	0	1	1	1	7	8	6
June . . .	·632	·596	+·018	80·3	77·7	-0·7	...	77·1	...	·816	·845	+·035	...	89	95	+9	8·8	11	1	0	0	0	0	9	8	0
July . . .	·640	·608	+·017	82·7	77·2	0	...	76·5	...	·856	·861	+·069	...	84	91	+4	9·1	9	0	0	0	0	0	2	20	0
August . . .	·643	·600	+·001	80·6	77·4	-0·4	...	76·5	...	·851	·848	+·063	...	84	92	+6	8·6	10	0	0	0	0	0	6	14	1
September . .	·657	·608	-·008	80·3	77·7	-0·3	...	76·5	...	·861	·860	+·079	...	84	92	+8	7·3	5	2	0	0	0	0	7	15	1
October . . .	·652	·602	-·019	80·7	77·6	-0·1	...	76·7	...	·829	·846	+·060	...	82	90	+5	8·1	6	0	0	1	0	1	5	10	8
November . .	·673	·622	-·018	82·4	78·7	+1·0	...	73·4	...	·841	·839	+·058	...	76	86	+2	6·6	2	0	0	0	0	0	1	0	27
December .	·669	·621	-·032	83·4	79·7	+2·3	...	75·9	...	·791	·783	+·075	...	70	79	+1	5·5	0	0	1	0	0	1	2	1	26
Year . . .	29·653	29·608	-·008	82·2	79·1	+0·5	...	75·9	...	·819	·832	+·062	...	78	87	+6	7·0	80	15	3	4	15	13	64	88	82

TABLE VII.—ABSTRACT OF OBSERVATIONS RECORDED AT 10 HRS. AND 16 HRS. (L. M. T.)

Station and height of bar cistern above mean sea-level in feet.	Month.	PRESSURE REDUCED TO 32°F AND STANDARD GRAVITY, INCHES.					TEMPERATURE OF AIR 2 °F								WET BULB TEMPERATURE °F.				VAPOUR PRESSURE, INCHES.				
		Mean 10 hrs. (L. M. T.)	Mean 16 hrs. (L. M. T.)	Mean daily range.	Mean of daily means.	Departure from normal.	Mean Maximum.	Mean Minimum.	Highest Maximum.	Lowest Minimum.	Mean 10 hrs. (L. M. T.)	Mean 16 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean Minimum.	Mean 10 hrs. (L. M. T.)	Mean 16 hrs. (L. M. T.)	Means of three previous columns.	From Minimum.	Mean 10 hrs. (L. M. T.)	Mean 16 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Katmandu (NEPAL) (4,388)	January	...	...	...	...	...	...	36·5	...	30	46·5	60·9	...	...	...	43·9	51·3	...	...	·259	·284	·279	+·026
	February	...	...	...	...	...	...	41·7	...	37	55·0	67·6	...	...	...	50·0	55·2	...	...	·302	·288	·305	+·045
	March	...	...	...	...	...	...	43·9	...	39	67·4	76·6	...	...	...	54·2	56·9	...	...	·267	·240	·251	—·050
	April	25·556	25·483	·073	25·518	+·014	...	50·6	...	43	70·4	76·6	...	...	...	57·9	59·8	...	...	·337	·320	·322	—·038
	May	·559	·453	·106	·502	+·054	...	58·8	...	47	73·4	76·6	...	...	...	64·1	65·3	...	...	·485	·483	·478	—·012
	June	·479	·322	·057	·346	—·012	...	66·8	...	62	77·9	79·7	...	...	...	70·2	71·7	...	...	·844	·690	·606	+·026
	July	·420	·351	·069	·384	+·030	...	67·9	...	64	77·9	78·7	...	...	...	71·1	72·3	...	...	·675	·707	·695	+·002
	August	·468	·401	·067	·[illegible]	+·040	...	67·4	...	64	77·0	78·7	...	...	...	70·1	71·9	...	...	·650	·702	·676	—·006
	September	·505	·440	·065	·469	—·009	...	65·5	...	61	76·9	77·8	...	...	...	69·1	70·9	...	...	·614	·675	·647	+·014
	October	·576	·516	·060	·543	—·049	...	57·3	...	48	67·9	76·9	...	...	...	62·4	66·8	...	...	·491	·544	·515	+·039
	November	·655	·590	·065	·619	—·034	...	45·8	...	38	55·7	70·7	...	...	...	52·8	59·9	...	...	·367	·390	·379	+·043
	December	·661	·599	·062	·627	—·038	...	39·5	...	33	48·6	62·3	...	...	...	46·3	52·8	...	...	·281	·293	·292	+·024
	Year	...	...	...	...	...	...	53·5	...	30	66·2	73·6	...	...	...	59·3	62·9	...	...	·448	·468	·459	+·010
SEYCHELLES (INDIAN OCEAN) (15)	January	29·861	29·773	·088	29·828	—·020	83·7	73·9	86	72	81·0	81·2	77·6	—0·9	72·6	76·3	76·4	75·1	·790	·835	·828	·836	+·009
	February	·849	·766	·083	·816	—·030	84·5	75·5	87	73	82·9	83·3	78·9	—0·2	73·7	76·6	76·9	75·7	·811	·838	·838	·852	+·010
	March	·863	·767	·096	·820	—·088	85·0	75·8	87	72	83·7	83·2	79·4	+0·5	73·2	76·8	76·[illegible]	75·6	·776	·831	·838	·842	—·019
	April	·871	·781	·090	·829	0	86·6	75·0	89	71	84·8	85·2	79·5	+0·1	72·9	73·9	77·7	74·8	·783	·824	·855	·846	—·017
	May	·861	·781	·080	·822	—·042	85·6	77·1	89	73	83·7	83·5	79·9	+0·4	73·7	77·3	77·2	76·1	·791	·838	·838	·835	—·011
	June	·906	·831	·075	·870	0	82·9	75·1	86	72	80·9	81·2	77·9	+0·3	71·7	75·6	75·2	74·2	·736	·821	·785	·797	+·016
	July	·940	·869	·071	·905	—·011	80·7	74·3	82	70	78·7	79·4	76·2	—0·2	70·1	73·6	73·7	72·5	·678	·770	·764	·752	+·001
	August	·928	·853	·075	·893	—·003	80·7	74·2	85	71	78·9	78·9	76·0	—0·6	69·8	73·1	73·4	72·1	·672	·729	·736	·720	—·027
	September	·940	·846	·094	·901	—·002	81·2	74·5	83	71	79·6	79·6	76·6	—1·1	70·6	73·8	74·3	72·9	·704	·757	·764	·749	—·018
	October	·921	·826	·095	·885	+·007	82·9	74·8	85	71	81·0	81·2	77·5	—0·2	71·4	75·4	75·4	74·1	·710	·792	·785	·775	—·019
	November	·892	·800	·092	·859	—·006	83·4	73·9	85	71	80·9	81·1	77·3	—0·3	71·0	75·5	75·5	74·0	·717	·792	·792	·792	—·043
	December	·869	·780	·088	·834	—·025	82·8	73·4	86	70	80·7	80·4	77·0	—0·9	70·7	74·9	74·9	73·5	·724	·785	·792	·792	—·040
	Year	29·892	29·806	·086	29·855	—·012	83·3	74·8	89	70	81·4	81·5	77·8	—0·3	71·8	75·2	75·6	74·2	·741	·801	·801	·799	—·013

AT KATMANDU AND SEYCHELLES DURING EACH MONTH AND THE YEAR 1933.

Relative Humidity, %.					Cloud Amount. (Tenths of Sky).				Wind Direction at 10 hrs. and 16 hrs. Numbers of winds from									Mean wind direction.	Wind Velocity.		Rainfall. Inches.		Rainy Days.
From Minimum.	Mean 10 hrs. (L. M. T.)	Mean 16 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L.M.T.)	Mean 16 hrs. (L. M. T.)	Mean of two previous columns.	Departure from normal.	Calm.	N.	N E.	E.	S E.	S.	S W.	W.	N W.		Mean velocity in miles per diem.	Departure from normal.	Actual.	Departure from normal.	Actual.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
...	82	53	71	—6	8·1	2·7	5·4	+2·0	0	12	5	12	2	7	1	14	9	N 18 W	24	+9	1·29	+0·30	3
...	70	43	60	—9	5·3	3·5	4·4	+0·9	0	10	2	7	0	4	0	23	10	N 57 W	31	+10	0·35	—0·51	1
...	40	26	34	—27	2·2	2·9	2·5	—0·8	0	11	3	11	4	4	4	21	4	N 59 W	29	+6	0	—1·09	0
...	45	35	40	—18	3·7	4·3	4·0	0	0	9	4	10	4	3	5	22	3	N 69 W	31	+5	4·42	+2·48	4
...	59	53	56	—12	5·8	6·3	6·1	+0·9	0	8	3	9	5	3	3	14	12	N 26 W	28	—3	5·70	+1·69	11
...	68	67	67	—9	7·9	7·8	7·9	+1·7	0	15	1	14	4	5	4	9	8	N 1 E	23	0	12·03	+2·81	20
...	71	73	72	—9	8·0	7·7	7·9	+1·1	0	28	5	13	4	6	0	5	1	N 30 E	25	+10	16·77	+1·86	22
...	70	71	72	—10	7·7	7·5	7·6	+0·5	0	16	6	11	2	12	0	15	0	N 13 E	23	+10	16·09	+1·43	17
...	66	71	71	—10	5·8	7·0	6·4	+0·1	0	11	3	21	1	4	2	14	4	N 30 E	18	+6	5·25	—2·19	12
...	73	59	67	—8	4·8	4·5	4·7	+0·7	0	9	4	17	1	5	0	22	4	N 26 W	15	+3	5·06	+2·77	5
...	82	51	71	—4	4·6	2·7	3·7	+1·1	0	15	3	10	0	4	2	18	8	N 37 W	15	+5	0	—0·15	0
...	83	52	70	—5	7·1	3·6	5·3	+2·7	0	18	2	18	1	4	0	15	9	N 4 W	19	+3	0	—0·31	0
...	67	55	63	—10	5·9	5·0	5·5	+1·0	0	157	46	153	28	61	21	192	72	...	23	+5	66·96	+9·18	95
93	80	78	87	+3	6·9	7·6	7·3	+0·3	11	4	6	8	4	0	1	3	20	N 23 W	108	+1	21·28	+4·19	20
90	73	73	82	—1	5·5	5·8	5·7	—0·8	1	11	10	2	0	0	1	7	24	N 24 W	104	—3	1·23	—11·87	4
88	71	73	81	—2	6·4	7·2	6·8	+0·1	4	6	11	3	2	0	0	3	33	N 21 W	129	+43	8·16	—1·75	6
90	95	70	88	+8	4·3	4·4	4·3	—0·8	2	4	9	13	5	1	1	2	23	N 10 E	104	+22	2·02	—5·33	4
84	73	73	79	—1	5·7	6·4	6·1	+1·0	4	2	0	6	17	14	6	3	10	S 10 E	147	+27	4·84	—1·23	10
84	77	74	80	+1	6·3	6·7	6·5	—0·6	1	1	2	21	27	7	1	0	0	S 59 E	220	+32	4·02	+0·12	8
81	78	76	79	+1	6·5	6·3	6·4	+0·8	1	1	1	13	37	7	2	0	0	S 49 E	288	+77	1·25	—1·16	4
79	74	76	77	—1	6·8	7·1	7·0	+0·6	0	0	3	9	32	17	1	0	0	S 41 E	276	+45	0·84	—1·72	3
81	74	76	79	—1	6·2	6·4	6·3	+0·7	0	0	0	12	32	13	3	0	0	S 41 E	286	+76	10·94	+6·08	9
83	76	74	80	—1	5·7	5·9	5·8	—0·4	2	4	4	19	19	10	2	2	0	S 60 E	198	+59	2·31	—2·47	7
86	76	76	82	—1	5·9	6·6	6·3	—0·6	7	1	3	21	16	4	0	2	6	S 75 E	125	+32	11·68	+1.27	14
88	74	76	81	—2	6·3	6·4	6·3	—0·5	3	5	3	2	4	2	1	6	35	N 44 W	139	+30	10·42	—4·02	15
86	77	75	81	0	6·0	6·4	6·2	0	36	39	52	129	195	76	19	33	151	...	177	+37	79·89	—17·89	104

TABLE VIII—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 15 STATIONS DURING EACH MONTH AND THE YEAR 1933.

Station; Latitude and Longitude.	Month.	Bright Sunshine. No. of days with duration. Nil.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month.	Percentage of possible hours of sunshine in the month.	Duration in the month. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal Radiation Temperature (1¼' above ground). Mean minimum.	Departure from normal.	Lowest in the month.	Date.	Depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
CALCUTTA— Lat. 22° 32' Long. 88° 20'	January	1	0	2	18	10	253·8	75	10·0	29	0	25	49·2	...	42·3	17	5·0	—2·2
	February	1	0	6	12	9	214·0	67	10·2	26, 27, 28	0	13	60·2	...	46·2	1	3·7	—3·2
	March	0	2	2	12	15	258·3	69	10·3	1	2·3	4	65·1	...	52·0	2	5·5	—0·6
	April	0	3	1	9	17	262·6	66	10·8	26	0·8	23	71·9	...	64·1	15	3·6	—0·9
	May	0	0	4	14	13	261·2	64	11·4	20	3·3	9	74·7	...	69·6	18	2·5	—0·6
	June	3	5	14	8	0	135·4	33	8·9	2	0	23, 24, 25	77·8	...	75·0	1	1·7	—0·5
	July	5	8	9	7	2	125·1	30	9·1	8, 31	0	5 days	77·7	...	73·9	19	1·8	—0·1
	August	1	16	8	5	1	110·2	28	10·7	1	0	13	77·0	...	72·9	19	1·3	—0·7
	September	4	8	9	5	4	133·8	36	9·9	14	0	4 days	76·3	...	73·1	30	2·1	—0·5
	October	1	2	10	10	8	211·6	59	10·1	29, 30	0	16	71·8	...	61·9	31	3·0	—1·3
	November	0	1	0	9	20	263·9	80	10·1	3, 7	3·0	18	60·9	...	54·2	26	4·8	—1·4
	December	0	0	4	26	1	240·4	72	9·1	15	3·9	29	52·6	...	48·2	20	5·2	—2·3
	Year	16	45	69	135	100	2460·3	56	11·4	...	0	...	67·9	...	42·3	I	3·3	—1·2
AGRA— Lat. 27° 08' Long. 78° 01'	January	0	1	1	12	17	273·1	83	10·4	5 days	1·8	22	34·1	...	21·1	14	5·3	...
	February	0	3	4	6	15	224·2	71	11·0	28	0·5	24	43·1	...	33·6	6,7	5·0	...
	March	0	1	1	4	25	301·3	81	11·1	27	2·5	21	50·5	...	40·7	2	6·8	...
	April	0	1	1	9	19	279·0	73	12·0	16	1·0	12	58·8	...	51·1	1	6·6	...
	May	1	2	0	13	15	269·3	65	12·4	14	0	16	(a) 70·9	...	64·6	2	4·8	...
	June	2	6	1	6	15	192·8	46	10·7	15	0	21, 22	77·9	...	73·0	21	5·2	...
	July	1	9	5	12	4	174·4	41	12·2	16	0	26	77·9	...	75·5	18	1·2	...
	August	1	11	7	9	3	152·8	38	10·6	3, 23	0	31	(b) 76·6	...	74·0	9	...	...
	September	2	5	5	3	14	(a) 198·6	(a) 54	11·5	10	0	23, 25	73·7	...	70·0	27	0·8	...
	October	1	1	1	0	28	304·5	83	11·0	5 days	0	18	59·5	...	46·0	31	3·8	...
	November	0	1	1	2	26	287·0	88	10·7	4	3·0	19	45·5	...	37·3	29	4·2	...
	December	0	1	0	3	27	287·3	89	10·2	1	0·1	20	40·0	...	32·4	19	4·2	...
	Year	8	42	27	79	208	2,944·3	66	12·4	...	0	...	59·0	...	21·1	I	...	...
LAHORE— Lat. 31° 35' Long. 74° 20'	January	1	4	4	15	7	210·4	66	9·5	25, 26	0	18	29·9	...	20·0	7	6·9	—2·7
	February	1	2	3	10	12	211·3	68	9·9	27	0	24	40·1	...	32·2	19	7·0	—2·4
	March	1	2	6	6	16	238·7	64	11·2	27	0	20	46·2	...	33·7	10	7·7	—1·5
	April	0	4	6	8	12	222·7	57	11·5	28	0·4	30	55·4	...	44·8	16	7·6	—1·8
	May	0	1	6	7	17	270·8	64	12·2	17	0·2	1	66·6	...	58·4	5	6·9	—2·1
	June	0	0	4	11	15	258·3	61	11·9	24	3·1	21	76·2	...	69·8	4 days	5·8	—0·7
	July	3	2	11	9	6	179·7	41	11·4	28	0	9, 14, 30	79·8	...	75·9	20	1·8	—2·1
	August	1	6	12	6	6	178·8	43	11·6	3, 9	0	14	76·7	...	72·2	15	1·2	—2·9
	September	1	2	7	3	17	229·6	62	10·9	14	0	25	72·0	...	66·9	27	2·7	—3·9
	October	0	0	0	2	29	294·9	83	10·2	1, 5	7·2	13	54·9	...	43·1	31	7·8	—2·0
	November	0	2	0	12	16	254·8	80	9·7	10	0·3	19	40·7	...	35·4	25	8·5	—2·2
	December	0	2	2	27	0	231·0	74	8·9	2	2·7	4	37·0	...	28·9	18	7·3	—2·7
	Year	8	27	61	116	153	2,781·6	63	12·2	--	0	...	56·3	...	20·0	I	5·9	—2·3

(a) Records for 29 days. (b) Mean of 20 days.

TABLE VIII—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 15 STATIONS DURING EACH MONTH AND THE YEAR 1933.

Station Latitude and Longitude.	Month.	Bright sunshine. No. of days with duration. Nil.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month.	Percentage of possible hours of sunshine in the month.	Duration in the month. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal Radiation Temperature (1½' above ground). Mean minimum.	Departure from normal.	Lowest in the month.	Date.	Depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
SRINAGAR—	January	8	7	10	6	0	97·7	31	8·2	13	0	7 days	22·3	...	13·0	14	1·5	—5·4
Lat. 34° 05'	February	4	8	8	6	1	(d) 97·5	(d) 32	9·6	6	0	4 days	30·7	...	25·0	7	2·0	—5·0
Long. 74° 50'	March	3	6	3	11	3	137·6	37	9·8	26	0	8 days	34·8	...	28·0	1	2·8	—5·4
	April	4	7	6	4	8	(b) 134·5	(b) 36	10·2	15	0	4 days	39·9	...	32·2	7	3·2	—5·8
	May	1	2	4	7	17	261·1	61	11·7	26	0	12	47·2	...	38·5	8	2·9	—5·3
	June	0	2	6	5	18	249·1	58	11·3	12	0.8	15	55·3	...	50·2	1	3·7	—5·6
	July	2	5	4	5	15	215·2	49	11·7	1	0	27, 31	63·1	...	57·0	1	4·8	—4·6
	August	2	9	6	10	4	158·1	38	10·5	17	0	7, 14	63·4	...	59·0	30	1·9	—6·8
	September	2	4	6	9	9	192·7	52	9·6	23	0	1, 20	(b) 53·2	...	47·5	24	2·5	—7·3
	October	1	1	5	12	12	218·1	62	9·7	29	0	13	39·1	...	28·3	27	3·6	—6·3
	November	3	4	4	10	9	165·9	63	9·6	6	0	18, 25, 28	25·3	...	23·2	16	6·9	—2·9
	December	1	7	10	12	0	(a) 148·7	(a) 50	8·7	13	0	25	25·0	...	15·4	21	3·2	—5·5
	Year	36	62	72	97	96	2,106·2	47	11·7	...	0	...	4·6	...	13·0	1	3·3	—5·4
PESHAWAR—	January	...	...	...	...	...	...	...	...	...	...	...	31·1	...	21·9	14	7·0	...
Lat. 34° 01'	February	...	...	...	...	...	...	...	...	...	...	...	(e) 37·5	...	30·8	13	7·7	...
Long 71° 35'	March	...	...	...	...	...	...	...		...	...	...	44·6	...	36·1	10	7·0	...
	April	...	...	...	...	...	...	...	...	...	...	...	(b) 50·6	...	41·1	6	8·2	...
	May	...	...	...	...	...	...	...	...	...	...	...	(a) 58·2	...	51·3	8	11·6	...
	June	...	...	...	...	...	...	...	...	...	...	...	(b) 66·9	...	59·6	14	11·1	...
	July	...	...	...	...	...	...	...	...	...	...	...	(a) 77·9	...	68·4	3	5·4	...
	August	...	...	...	...	...	...	...	...	...	...	...	(c) 74·3	...	70·0	27	3·5	...
	September	...	...	...	...	...	...	...	...	...	...	...	67·1	...	62·7	25	6·3	...
	October	...	...	...	...	...	...	...	...	...	...	...	50·1	...	38·9	28	11 2	...
	November	...	...	...	...	...	...	...	...	...	...	...	(b) 37·4	...	31·2	29	12·9	...
	December	...	...	...	...	...	...	...	...	...	...	...	33·3	...	24·8	19	10·2	...
	Year	...	...	...	...	...	...	...	...	...	...	...	52·4	...	21·9	1	8·5	...
QUETTA—	January	0	7	5	9	10	196·4	61	10·6	24	0·8	31	(g) 20·9	...	9·4	6,12	6·1	...
Lat. 30° 10'	February	4	1	6	6	11	194·1	63	11·4	27	0	4 days	(e) 27·8	...	14·2	1	3·2	...
Long. 67° 01'	March	0	4	4	4	19	268·5	73	12·3	27	2·2	20	(b) 30·6	...	16·8	9	5·5	...
	April	0	2	8	4	16	249·1	64	13·2	25	0·8	27	(b) 38·1	...	28·0	11	8·9	...
	May	0	0	4	2	25	340·6	81	13·9	31	3·1	11	(f) 48·3	...	32·1	22	6·7	...
	June	0	0	0	0	30	398·8	95	14·0	7 days	11·0	25	(d) 49·4	...	24·4	28	14·4	...
	July	0	0	2	5	24	332·0	78	14·0	1	4·7	28	...	...	...	...	...	...
	August	0	0	1	2	28	330·8	82	12·9	29	3·5	1	(i) 37·6	...	...	...	...	...
	September	0	0	0	1	29	358·7	97	12·8	1, 2	9·0	9	(e) 46·6	...	36·0	22,23	6·4	...
	October	0	0	0	2	29	345·5	97	11·8	1, 6	7·4	29	(c) 31·1	...	16·7	25	8·4	...
	November	0	1	6	3	20	265·8	83	11·0	1, 3, 4	0·5	18	(h) 24·5	...	15·5	27	4·8	...
	December	0	1	4	8	18	266·9	84	10·2	11 days	0·4	3	(d) 24·3	...	16·0	9	6·2	...
	Year	4	16	40	46	259	3,547·0	80	14·0	0	0	...	...	...	9·4	1	...	...

(a) Records for 30 days.
(b) Records for 29 days.
(c) Records for 28 days.
(d) Records for 27 days.
(e) Records for 26 days.
(f) Mean of 25 days.
(g) Mean of 23 days.
(h) Mean f 22 days.
(i) Mean of 17 days.

TABLE VIII—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATUR AT 15 STATIONS DURING EACH MONTH AND THE YEAR 1933.

Station Latitude and Longitude.	Month.	Bright Sunshine. No. of days with duration. Nil.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month.	Percentage of possible hours of sunshine in the month.	Duration in the month. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal Radiation Temperature (1½′ above ground). Mean Minimum.	Departure from normal.	Lowest in the month.	Date.	Depression below the minimum in Shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
DRIGH ROAD (KARACHI)— Lat. 24° 51′ . Long. 67° 04′ .	January	0	2	3	9	17	255·1	76	10·0	5 days	1·9	21	45·1	...	32·3	24	...	...
	February	1	4	2	5	16	215·9	68	10·8	28	0	23	52·8	...	41·8	4	...	...
	March	0	0	0	5	26	311·1	84	11·0	4 days	6·8	20	55·3	...	43·8	9	...	...
	April	0	1	0	4	25	302·1	79	11·8	27	2·3	4	69·5	...	62·0	7	...	...
	May	0	0	0	2	29	336·7	81	11·8	5 days	8·6	25	74·6	...	67·9	1	...	...
	June	0	1	6	8	15	242·4	59	11·4	17	0·1	27	80·9	...	77·5	10	...	...
	July	4	13	7	5	1	111·9	27	9·4	1	0	4 days	79·4	...	73·0	17	...	...
	August	4	10	6	8	3	129·8	32	10·5	29	0	4days	77·0	...	73·0	12	...	...
	September	0	2	5	11	12	228·9	62	10·3	30	2·1	14	74·6	...	69·8	28	...	...
	October	0	0	0	2	29	307·9	86	10·4	6, 7, 10	7·9	3	65·7	...	55·2	28	...	...
	November	0	1	1	2	26	280·7	81	10·2	4 days	0·5	17	57·7	...	49·4	23	...	...
	December	0	0	1	5	25	292·1	89	10·3	1	6·0	31	50·8	...	44·2	10	...	...
	Year	9	34	31	66	224	3,014·6	68	11·8	...	0	...	65·3	...	32·3	I	...	...
JAIPUR— Lat. 26° 55′ . Long. 75° 50′ .	January	0	0	1	7	23	283·6	87	10·2	28, 30	5·4	18	30·2	...	20·9	15	13·3	...
	February	0	3	4	6	15	226·5	73	10·8	27	1·0	23	41·8	...	26·1	4	11·1	...
	March	0	0	0	5	26	313·4	86	11·1	16	6·1	23	50·2	...	36·0	1	10·5	...
	April	1	2	2	8	17	261·1	69	11·8	16	0	12	59·8	...	46·5	8	8·4	...
	May	1	2	3	4	20	254·1	63	11·7	4, 9	0	16	70·6	...	62·0	1	4·5	...
	June	Data not available.											77·0	...	70·3	26	3·5	...
	July	2	6	6	12	5	172·6	41	11·4	17	0	14, 30	75·0	...	71·1	24	2·4	...
	August	4	15	7	3	2	92·5	23	11·1	3	0	4 days.	73·3	...	64·9	13	1·8	...
	September	2	4	3	7	14	221·3	61	11·7	11	0	24, 25	70·3	...	66·0	28	3·1	...
	October	0	2	0	0	29	310·9	88	11·1	5	0·1	19	57·7	...	44·8	30	6·0	...
	November	0	0	1	3	26	293·9	92	10·6	4 days	5·4	20	43·7	...	34·2	29	9·4	...
	December	0	0	1	2	28	300·1	94	10·2	4 days	3·2	20	37·5	...	27·9	18	9·5	...
	Year	...	...	...	...	...	...	...	...	...	...	...	57·3	...	20·9	I	7·0	...
BOMBAY— Lat. 18° 54′ . Long 72° 49′	January	0	0	0	4	27	307·4	89	10·4	4 days	8·2	3	...	...	...	...	...	...
	February	0	0	0	2	26	284·3	88	10·8	21, 22, 28	4·7	24	...	...	...	...	...	...
	March	0	0	0	0	31	314·3	84	11·4	1	9·1	15	...	...	...	...	...	...
	April	0	0	0	0	30	331·3	88	11·6	24,30	10·4	23	...	...	...	...	...	...
	May	0	2	3	6	20	280·6	70	11·7	26	0·8	15	...	...	...	...	...	...
	June	4	6	4	8	8	167·3	41	11·4	9	0	4 days.	77·0	...	73·6	21	1·9	—1·2
	July	8	8	5	6	4	111·6	27	10·7	21, 22	0	8 days.	76·4	...	73·0	31	2·1	—0·6
	August	6	6	12	5	2	116·7	30	9·9	30	0	6 days	74·5	...	73·0	2	2·1	—0·9
	September	3	4	6	11	6	174·6	48	10·1	26, 27	0	11, 17, 18	(a) 73·5	...	69·4	26	2·8	—0·7
	October	0	3	1	11	16	255·6	70	10·6	29, 31	0·1	21	71·0	...	64·2	30	4·9	—1·4
	November	0	0	0	6	24	290·8	86	10·6	1, 2, 7	6·4	15, 19	65·8	...	61·0	18	8·1	—0·8
	December	1	0	2	1	27	289·1	85	10·4	4 days	0	19	60·8	...	54·0	31	8·7	—1·0
	Year	22	29	33	60	221	2,923·6	66	11·7	...	0	...	...	...	...	...	...	...

(a) Mean of 29 days.

TABLE VIII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 15 STATIONS DURING EACH MONTH AND THE YEAR 1933.

Station Latitude and Longitude.	Month.	Bright Sunshine. No. of days with duration. Nil.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month.	Percentage of possible hours of Sunshine in the month.	Duration in the month. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal Radiation Temperature (1¼' above ground). Mean Minimum.	Departure from normal.	Lowest in the month.	Date.	Depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
POONA. Lat. 18° 31′ Long. 73° 51′	January	0	0	0	8	23	303·1	88	10·8	25	6·6	8	43·9	...	31·9	25	7·6	...
	February	0	0	0	2	26	295·2	92	11·2	21	8·1	28	46·5	...	40·8	21	9·1	...
	March	0	0	0	3	28	325·5	87	11·6	28	7·6	15	51·8	...	43·2	5	9·4	...
	April	0	0	0	0	30	340·2	90	12·3	27	9·4	21	59·6	...	50·0	9	9 1	...
	May	0	1	6	8	16	274·9	68	12·2	8	0·5	15	67·3	...	58·1	2	4·4	...
	June	2	6	7	7	8	181·1	46	11·7	13	0	24	69·5	...	66·1	10	6·0	...
	July	4	9	8	6	4	128·8	32	11·8	21	0	27	69·3	...	63·8	22	2·4	...
	August	4	9	7	8	3	136·3	35	11·0	31	0	1	67·1	...	63·0	31	2·8	...
	September	0	7	7	12	4	178·2	49	11·4	1	0·1	18	66·3	...	59·9	26	2·6	...
	October	1	3	2	13	12	240·3	66	11·0	30	0	21	62·2	...	47·1	30	3·9	...
	November	0	1	0	9	20	282·5	84	11·0	1	1·7	19	54·3	...	41·0	30	6·2	...
	December	1	1	1	6	22	281·4	82	10·7	2	0	19	46·4	...	37·6	3	6·4	...
	Year	12	37	38	82	196	2,968·0	67	12·3	...	0	...	58·7	...	31·9	I	5·8	...
BANGALORE. Lat. 12° 58′ Long. 77° 35′	January	0	0	6	16	9	239·4	67	9·9	1	3·3	9	55·2	...	49·6	1	2·7	...
	February	0	0	1	5	22	259·8	79	10·1	9	4·5	1	57·7	...	51·2	10	3·9	...
	March	0	1	2	8	20	277·5	74	10·6	10, 30	2·4	28	62·9	...	51·0	9	2·5	...
	April	0	0	4	6	20	266·0	71	11·0	13	3·1	11	67·2	...	61·2	3	2·8	...
	May	0	6	10	8	7	193·2	49	11·4	2	0·2	8	67·6	...	65·0	22	1·9	...
	June	1	7	9	11	2	148·3	38	9·7	7	0	3	65·1	...	61·0	9	1·4	...
	July	2	16	9	2	2	102·4	26	9·5	19	0	30, 31	64·7	...	62·0	6	1·5	...
	August	3	7	8	11	2	143·6	37	10·9	27	0	2, 3, 12	64·9	...	62·2	29	1·8	...
	September	0	10	9	9	2	141·7	39	10·2	24	0·1	5	62·9	...	57·0	25	2·4	...
	October	1	11	9	6	4	135·7	37	9·7	22	0	17	62·2	...	55·0	21	2·9	...
	November	0	3	3	16	8	219·9	64	9·9	16	1·9	9, 10	59 9	...	50·0	16	3·1	...
	December	2	2	2	15	10	225·9	64	9·9	2, 3, 30	0	15, 16	55·9	...	44·1	6	3·2	...
	Year	9	63	72	113	108	2,353·4	53	11·4	...	0	...	62·2	...	44·1	XII	2·5	...
MADRAS. Lat. 13° 04′ Long. 80° 15′	January	0	1	3	17	10	247·7	70	9·8	18	2·2	17	64·3	...	59·2	22, 23	5·0	...
	February	0	0	0	1	27	284·9	87	11·1	24	8·5	1	63·7	...	58·3	17	4·6	...
	March	2	1	0	1	27	291·1	78	11·3	20	0	11, 12	67·0	...	60·2	9	3·8	
	April	0	0	1	2	27	302·5	81	11·5	13, 22	5·9	11	73·5	...	66·5	1	4·0	
	May	0	3	3	6	19	257·8	65	11·1	6, 7	1·4	23	78·2	...	75·4	5	2·1	...
	June	3	4	5	12	6	178·9	46	10·2	25	0	3, 14, 27	79·2	...	74·0	6	2·4	...
	July	3	8	7	8	5	149·9	38	10·7	22	0	28, 30, 31	77·6	...	71·5	19	2·2	...
	August	0	5	5	6	15	232·5	60	11·5	27	0·6	8	77·5	...	73·8	14	1·3	...
	September	1	4	10	10	5	184·2	51	11·3	14	0	5	77·0	...	74·0	4	1·5	...
	October	6	6	7	7	5	146·1	40	11·2	21	0	6 days	73·6	...	67·9	21	1·9	...
	November	2	2	2	10	14	223·4	65	11·0	22	0	9, 17	70·5	...	65·8	17	1·9	...
	December	3	2	3	8	15	230·9	66	10·9	29	0	14, 15, 16	66·6	...	60·8	30	2·3	...
	Year	20	36	46	88	175	2,729·9	62	11·5	...	0	...	72·4	...	58·3	II	2·7	...

TABLE VIII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 15 STATIONS DURING EACH MONTH AND THE YEAR 1933.

Station Latitude and Longitude.	Month.	Bright Sunshine. No. of days with duration. Nil.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month.	Percentage of possible hours of Sunshine in the month.	Duration in the month. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal Radiation Temperature (1¼' above ground). Mean minimum.	Departure from normal.	Lowest in the month	Date.	Depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
KODAIKANAL. Lat. 10° 14' Long. 77° 28'.	January	1	1	7	9	13	236·2	65	10·7	18	4·5	28	37·0	...	27·0	25	9·2	...
	February	0	0	2	11	15	257·8	78	11·4	28	3·9	5	38·6	...	28·0	10	9·2	...
	March	0	0	4	6	21	291·7	78	11·8	21	3·4	12	38·7	...	31·5	11	10·4	...
	April	1	0	4	12	13	242·1	65	10·8	19	3·2	10	43·6	...	37·8	21	9·8	...
	May	0	11	9	10	1	142·0	37	11·9	1	0·1	28	47·5	...	41·3	1	6·1	...
	June	0	10	6	9	5	163·8	43	10·9	26	0·1	17	48·7	...	42·6	26	4·1	...
	July	1	11	8	10	1	131·2	33	10·2	11	0·2	24	49·6	...	46·2	14	2·7	...
	August	0	11	15	5	0	115·6	30	8·2	27	0·3	2	48·6	...	43·0	12	3·4	...
	September	4	6	7	11	2	142·1	39	11·2	23	0·8	29	48·6	...	43·1	14, 24	2·9	...
	October	1	14	10	2	4	127·8	35	11·2	20, 23	0·3	30	47·3	...	36·7	21	3·2	...
	November		5	8	6	7	162·6	46	10·2	16, 21	1·1	3	43·4	...	32·0	28	4·3	...
	December	2	3	7	10	9	195·0	54	10·0	30	0·6	16	40·1	...	26·0	5	6·6	...
	Year	14	72	87	101	91	2,207·9	50	11·9	...	0·1	...	44·3	...	26·0	XII	6·0	...
TRIVANDRUM. Lat. 8° 29' Long. 76° 57'	January	0	4	1	11	15	254·3	70	11·0	5 days	1·2	7	62·8	...	59·9	11	13·0	...
	February	0	1	3	4	20	252·3	76	11·1	22	2·3	1	57·1	...	51·3	10	17·6	...
	March	0	0	1	18	12	269·5	72	10·8	2, 3	5·6	13	59·5	...	52·3	20	17·0	...
	April	1	2	7	20	0	189·7	51	9·0	3, 13	0	9	69·0	...	64·6	1	9·5	...
	May	3	15	5	7	1	106·0	27	9·7	1	0	27, 28, 29	65·3	...	62·0	29	11·4	...
	June	2	10	10	8	0	120·8	32	9·0	7, 25, 27	0	23	64·4	...	62·1	29	10·8	...
	July	0	13	9	7	2	128·9	33	9·3	15	0·3	6	63·2	...	60·3	28	11·9	...
	August	2	8	11	7	1	126·9	33	9·9	11	0	1, 7	62·4	...	60·2	8	12·5	...
	September	1	5	12	11	0	153·1	42	8·8	13, 24	0	4	60·4	...	58·9	5	14·7	...
	October	4	8	7	7	5	155·5	42	11·2	23	0	4 days	60·1	...	58·7	15	14·8	...
	November	0	4	8	8	10	208·2	59	10·8	30	0·6	8	61·9	...	57·2	29	12·5	...
	December	2	4	1	10	14	234·8	65	10·5	4 days	0	11, 12	54·8	...	53·0	31	20·1	...
	Year	15	74	75	118	80	2,200·0	50	11·2	...	0	...	61·7	...	51·3	II	13·8	...
ABADAN— Lat. 30° 21' Long. 48° 16'	January	5	5	4	12	5	162·6	52	9·5	31	0·2	13	...	...	...	...	...	...
	February	2	1	3	11	11	205·3	66	10·2	18, 22	0·3	12	...	...	...	...	...	...
	March*	1	2	6	4	13	196·4	65	11·1	23	0·1	12	...	...	...	...	...	...
	April †	0	0	3	3	22	277·0	77	12·0	23	4·0	13	...	...	...	...	...	...
	May ‡	0	0	1	4	24	309·3	78	12·3	25, 27	3·9	3	...	...	...	...	...	...
	June	0	0	3	0	27	328·8	78	12·5	14, 22	5·5	30	...	...	...	...	...	...
	July	0	1	4	5	21	298·7	70	12·4	11	1·8	4	...	...	...	...	...	...
	August §	0	0	5	5	20	288·1	74	12·0	23	3·3	1	...	...	...	...	...	...
	September	0	0	1	2	27	317·6	86	11·5	2	5·3	20	...	...	...	...	...	...
	October ‡	0	1	0	4	24	273·8	80	10·8	1, 2, 3	1·9	26	...	...	...	...	...	...
	November	1	2	1	11	15	239·8	75	9·8	2	2·2	29	...	...	...	...	...	...
	December	1	3	6	18	3	209·3	66	9·1	28	1·2	17	...	...	...	...	...	...
	Year	10	15	37	79	212	3,106·7	70	12·5	...	0·1	...	...	...	...	...	...	...

(§) Records for 30 days. (‡) Records for 29 days. (†) Records for 28 days. *Records for 26 days.

TABLE IX.—MEAN HOURLY WIND VELOCITY FOR THE YEAR 1933.

Month.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
LAHORE (28 FEET).																								
January	2	2	2	2	2	2	2	2	2	3	4	5	5	6	5	5	4	2	1	1	1	1	1	1
February	2	2	3	2	3	3	3	3	3	4	5	5	5	5	5	5	5	3	1	1	1	1	2	2
March	3	3	4	4	4	4	4	4	5	5	5	6	6	6	6	6	6	4	2	2	2	2	3	3
April	4	4	4	4	4	4	4	5	5	6	6	6	7	6	6	7	7	5	3	2	2	3	3	4
May	2	2	3	3	3	3	4	5	5	5	6	6	5	5	5	5	4	4	2	1	2	2	2	2
June	3	3	3	3	3	3	5	5	6	7	7	6	6	6	5	5	4	3	2	1	2	2	2	3
July	4	4	4	4	4	4	5	5	6	6	6	6	5	5	5	5	5	4	3	3	3	4	4	4
August	2	2	2	3	3	3	3	5	5	6	6	6	5	5	5	5	4	3	3	2	2	2	2	2
September	1	1	1	1	2	2	2	3	3	4	4	3	3	4	3	3	3	2	1	1	1	1	1	1
October	2	2	3	3	3	3	4	4	4	5	5	5	5	5	4	4	2	0	0	0	1	1	1	2
November	2	2	3	3	3	3	3	3	3	4	3	4	4	4	4	3	1	0	0	0	1	1	1	2
December	1	2	2	2	2	2	2	2	3	3	4	4	4	4	4	4	1	0	0	0	0	0	1	1
Year	2	2	3	3	3	3	3	4	4	5	5	5	5	5	5	5	4	3	2	1	1	2	2	2
MADRAS (50 FEET).																								
January	12	12	11	11	11	11	10	10	10	11	12	12	12	13	13	13	13	13	13	13	13	13	13	12
February	9	8	7	7	7	6	6	5	4	5	6	7	8	8	9	9	9	9	9	9	9	9	9	9
March	8	7	6	6	5	5	5	5	5	5	6	8	9	10	10	10	9	9	9	9	9	9	9	8
April	8	7	7	7	7	6	6	6	7	7	8	9	10	11	11	11	11	11	10	10	10	10	10	9
May	9	8	7	7	6	6	6	7	7	8	9	9	10	11	12	12	12	12	11	11	11	11	10	9
June	11	11	10	10	10	10	10	11	13	13	14	14	14	14	14	15	14	14	14	14	14	13	13	11
July	9	10	9	9	9	9	9	10	11	13	13	13	13	12	13	12	11	11	10	10	11	11	10	10
August	11	11	9	9	9	9	8	8	9	11	11	12	13	12	13	14	13	12	11	11	11	11	11	11
September	10	10	10	10	10	10	9	10	11	12	13	14	13	13	13	12	13	12	12	11	10	11	11	10
October	7	7	7	7	7	8	8	8	8	8	9	10	10	11	12	12	11	11	10	10	9	9	8	8
November	11	10	9	10	10	10	10	10	10	11	12	13	13	14	14	14	14	13	14	13	13	12	12	11
December	13	13	12	12	12	11	11	10	11	12	13	14	14	15	15	15	15	15	15	15	15	15	14	14
Year	10	9	9	9	9	8	8	8	9	10	11	11	12	12	12	12	12	12	12	11	11	11	11	10
KODAIKANAL (42 FEET)																								
January	8	8	8	8	8	7	7	8	9	10	10	10	9	8	8	7	6	5	5	6	6	7	8	8
February	7	8	7	7	7	7	7	7	7	7	8	8	9	8	7	7	5	4	3	3	4	6	6	7
March	6	7	7	7	6	7	7	7	8	9	10	10	10	10	8	7	6	4	4	3	4	4	4	5
April	6	7	6	7	7	7	6	6	7	7	7	8	8	8	7	7	6	6	5	4	5	5	6	6
May	7	7	7	7	7	7	6	6	7	7	6	7	7	7	7	7	8	6	6	6	7	7	8	6
June	12	12	15	13	13	13	13	13	12	10	9	9	10	10	9	8	9	10	10	11	11	12	12	13
July	14	15	15	15	15	15	14	13	14	12	12	13	13	12	12	11	11	11	12	13	13	14	15	15
August	10	10	10	10	9	9	9	9	8	8	9	9	10	10	10	0	10	10	9	10	9	9	10	10
September	10	9	9	10	9	9	9	10	8	8	8	9	9	9	9	10	10	9	8	8	9	10	10	9
October	4	5	5	5	5	5	5	5	4	4	5	5	4	4	4	4	4	3	3	3	4	4	4	4
November	9	9	9	9	9	9	9	9	9	9	9	9	9	8	7	7	7	7	7	8	8	9	9	9
December	7	7	7	6	7	7	6	6	5	5	5	5	6	6	5	5	5	5	5	6	6	7	6	6
Year	8	9	9	9	9	9	8	8	8	8	8	9	9	8	8	7	7	7	6	7	7	8	8	8

TABLE X.—NUMBER OF DAYS IN EACH MONTH ON WHICH THE NILGIRIS WERE VISIBLE IN 1933.

Month.	Very clear.	Visible.	Just visible.	Top only visible.	Total.
January	2	12	3	2	19
February	2	4	1	..	7
March	..	1	..	4	5
April	4	..	3	1	8
May	13	2	4	2	21
June	..	1	5	1	7
July	..	..	2	5	7
August	1	3	1	6	11
September	..	3	2	3	8
October	3	8	..	10	21
November	..	7	..	6	13
December	..	11	1	4	16
Year	25	52	22	44	143

Tables XI to XVI—Tables of rainfall, rainy days and of heavy rain for 1933 based on the data of over 3,100 raingauge stations.

TABLE XI.—AVERAGE OVER THE 15 CHIEF POLITICAL DIVISIONS OF THE

DIVISION.	JANUARY.			FEBRUARY.			MARCH.			APRIL.			MAY			JUNE.		
	Actual.	Departure from normal.	Percentage departure fro a normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
	"	"		"	"		"	"		"			"	"		"	"	
Burma .	0·03	—0·08	—73	0·05	—0·17	—77	0·13	—0·34	—72	1·26	—0·06	—5	11·61	+2·87	+33	18·16	+2·23	+14
Assam . .	0·42	—0·26	—38	1·14	—0·39	—25	0·04	—3·31	—84	7·57	—1·46	—16	11·36	—0·05	—5	18·42	+0·[illegible]	+1
Bengal. . .	0·46	+0·12	+35	1·29	+0·34	+36	0·19	—1·48	—89	4·97	+1·09	+52	7·02	+0·23	+3	15·58	+0·94	+6
Bihar and Orissa .	1·44	+0·93	+182	1·46	+0·55	+60	0·13	—0·59	—82	1·74	+0·94	+117	4·11	+1·04	+66	8·67	+0·17	+2
United Provinces .	0·41	—0·38	—48	0·74	+0·02	+3	0·20	—0·26	—57	1·96	+0·81	+324	1·62	+0·94	+138	7·44	+3·05	+69
Punjab . .	0·19	—0·88	—81	0·68	—0·21	—24	1·00	+0·17	+20	0·42	—0·12	—22	1·14	+0·57	+100	2·39	+0·66	+38
North-West Frontier Province.	0·74	—0·54	—42	0·90	—0·29	—24	1·95	+0·06	+3	1·27	—0·27	—18	0·92	+0·15	+19	1·88	+1·02	+119
Sind . . .	0·02	—0·21	—91	0·12	—0·17	—59	0·10	—0·13	—57	0·14	+0·03	+27	0·24	+0·09	+60	0·08	—0·39	—83
Rajputana . .	0	—0·30	—100	0·26	—0·01	—4	0·11	—0·09	—45	0·78	+0·62	+387	1·06	+0·56	+112	6·94	+4·68	+207
Bombay . .	0·02	—0·10	—83	0·09	+0·01	+13	0·14	+0·03	+27	0·59	+0·20	+51	3·19	+2·13	+201	10·07	+1·35	+15
entral India .	0·08	—0·38	—83	0·33	—0·06	—15	0·19	—0·03	—14	0·66	+0·49	+288	1·29	+0·82	+174	7·92	+2·41	+49
Central Provinces .	0·33	—0·18	—35	2·00	+1·20	+150	0·48	—0·05	—9	0·85	+0·38	+81	3·21	+2·55	+386	8·75	+0·87	+11
Hyderabad . .	0·25	+0·08	+47	0·60	+0·35	+140	0·57	+0·18	+46	0·85	+0·20	+31	2·68	+1·81	+208	9·39	+4·44	+90
Mysore . .	0	—0·12	—100	0·11	—0·02	—15	0·35	+0·04	+13	1·60	+0·14	+10	7·02	+3·44	+96	4·63	—0·17	—4
Madras . .	0·09	—0·65	—88	0·21	—0·23	—52	1·14	+0·43	+61	2·25	+0·48	+27	9·40	+5·88	+167	8·87	+0·92	+12
Mean of India .	0·27	—0·19	—41	0·63	+0·08	+15	0·43	—0·26	—38	1·53	+0·32	+26	5·02	+1·88	+60	9·66	+1·71	+22

MONTHLY AND ANNUAL RAINFALL, WITH ITS DEPARTURE FROM NORMAL IN 1933.

JULY.			AUGUST.			SEPTEMBER.			OCTOBER.			NOVEMBER.			DECEMBER.			YEAR.		
Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
"			"	"		"	"		"	"		"	"		"	"		"	"	
16·14	1·11	—6	14·63	—2·26	—13	12·41	+0·21	+2	5·93	0·56	9	1·20	—1·00	—45	0·09	—0·40	—82	81·64	—0·67	—1
17·26	1·42	—8	18·66	+1·77	+10	9·74	2·84	—23	4·83	0·86	15	0·11	—0·52	—56	0·09	—0·27	—75	90·54	—9·96	—10
15·95	+0·94	+6	19·55	+5·36	+38	11·03	+0·20	+2	4·53	0·55	—11	0·08	—0·72	—90	0·01	—0·15	—94	81·56	+6·92	+9
14·60	+2·05	+16	16·51	+3·65	+28	8·11	—0·52	—6	3·70	+0·60	+19	0·16	—0·41	—72	0·15	+0·01	+7	60·78	+9·02	+17
0·23	—2·27	—20	10·19	—1·01	—9	7·06	+0·67	+10	3·52	+2·18	+163	0·01	—0·16	—94	0·03	—0·26	—90	41·51	+3·33	+9
5·71	+0·36	+7	10·19	+4·76	+88	6·50	+3·72	+134	0·30	—0·01	—3	0·06	—0·06	—50	0·04	—0·35	—90	28·62	+8·66	+43
2·89	+0·31	+12	5·87	+2·71	+86	1·49	+0·31	+26	0·11	—0·22	67	0·02	—0·26	—93	0·10	—0·44	—81	18·14	+2·54	+16
1·29	+1·80	+72	3·22	+1·31	+69	1·26	+0·64	+103	0	—0·05	—100	0	—0·06	—100	0	—0·08	—100	9·47	+2·78	+42
4·42	—2·35	—35	10·30	+3·47	+51	6·11	+2·80	+85	0·51	+0·06	+13	0·33	+0·20	+154	0·07	—0·10	—59	30·89	+9·54	+45
12·64	—2·20	—15	14·99	+5·46	+57	10·95	+4·46	+69	3·80	+1·24	+48	0·73	—0·02	—3	0·71	+0·53	+294	57·02	+13·09	+29
9·75	—1·45	—13	12·19	+0·48	+4	10·28	+4·66	+83	1·19	+0·23	+24	0·37	—0·06	—14	0·17	—0·02	—11	43·82	+7·09	+19
14·72	+1·56	+12	14·72	+2·42	+20	11·53	+4·35	+61	2·25	+0·30	+15	0·35	—0·14	—29	0·42	+0·10	+31	59·61	+13·36	+29
7·38	+0·21	+3	6·85	+0·06	+1	8·10	+0·61	+8	3·94	+1·32	+50	1·31	+0·40	+44	1·52	+1·23	+424	43·44	+10·89	+33
7·67	+0·52	+7	8·69	+3·46	+66	6·69	+1·51	+29	9·65	+4·35	+82	0·58	—1·84	—76	1·74	+1·29	+287	48·73	+12·60	+35
9·12	+0·85	+10	8·73	+2·05	+31	7·50	+1·47	+24	9·36	+1·62	+21	4·23	—1·75	—29	2·99	+0·90	+43	63·89	+11·97	+23
10·5	—0·32	—3	12·36	+1·99	+19	8·76	+1·72	+24	3·78	+0·51	+16	0·84	—0·45	—35	0·55	+0·08	+17	54·78	+7·07	+5

TABLE XII—AVERAGE OVER THE 33 SUB-DIVISIONS OF THE MONTHLY AND ANNUAL

SUB-DIVISION.	JANUARY.					FEBRUARY.					MARCH.				
	RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
			"	"				"	"				"	"	
1. Bay Islands	0·5	—0·8	0·09	—1·11	—93	1·0	+0·3	0·23	—0·26	—53	0·5	—0·2	0·16	—0·29	—64
2. Lower Burma	0·1	—0·2	0·02	—0·09	—82	0·1	—0·2	0·06	—0·16	—73	0·4	—0·3	0·23	—0·30	—57
3. Upper Burma	0·1	—0·2	0·03	—0·08	—73	0·1	—0·5	0·04	—0·18	—82	0·1	—0·9	0·04	—0·38	—90
4. Assam	1·5	—0·1	0·42	—0·26	—38	2·9	—0·5	1·14	—0·39	—25	1·6	—4·7	0·64	—3·31	—84
5. Bengal	1·1	+0·4	0·46	+0·12	+35	2·4	+0·8	1·29	+0·34	+36	0·5	—2·0	0·19	—1·48	—89
6. Orissa	1·5	+0·7	1·03	+0·58	+129	3·5	+1·7	2·40	+1·24	+107	0·6	—1·3	0·24	—0·84	—78
7. Chota Nagpur	3·1	+1·7	2·51	+1·76	+235	5·1	+3·0	2·41	+1·27	+111	1·0	—0·8	0·24	—0·67	—74
8. Bihar	2·1	+1·2	1·12	+0·69	+160	1·6	+0·1	0·55	—0·14	—20	0·1	—0·9	0·04	—0·44	—92
9. United Provinces, East	0·8	—0·6	0·45	—0·18	—29	2·0	+0·7	0·72	+0·17	+31	0·4	—0·4	0·13	—0·19	—59
10. Do. do West	1·0	—0·9	0·38	—0·55	—59	1·9	+0·3	0·75	—0·11	—13	0·8	—0·5	0·26	—0·33	— 6
11. Punjab, East and North	0·7	—1·5	0·24	—0·96	—80	1·8	—0·2	0·86	—0·15	—15	2·3	+0·4	1·25	+0·35	+39
12. Do. Southwest	0·3	—0·9	0·07	—0·43	—86	0·5	—0·8	0·15	—0·38	—72	0·9	—0·7	0·27	—0·37	—58
13. Kashmir	4·5	—0·6	2·72	—0·92	—25	5·7	+0·7	3·74	+0·22	+6	7·2	+0·8	5·95	+1·37	+30
14. North West Frontier Province	2·0	—0·4	0·74	—0·54	—42	2·2	—0·4	0·90	—0·29	—24	4·0	+0·3	1·95	+0·06	+3
15. Baluchistan	1·6	—1·0	0·78	—0·48	—40	3·5	+1·0	1·31	+0·11	+9	2·3	—0·6	0·94	—0·32	—25
16. Sind	0·1	—0·5	0.02	—0.21	—91	0·4	—0·3	0·12	—0·17	—59	0·3	—0·2	0·10	—0·13	—57
17. Rajputana, West	0	—0·5	0	—0.19	—100	1·0	+0·5	0·32	+0·09	+39	0·4	—0·1	0·16	—0·02	—11
18. Do. East	0	—0.9	0	—0.36	—100	0·9	+0·2	0·23	—0·06	—21	0·3	—0·3	0·07	—0·15	—68
19. Gujarat	0	—0·2	0	—0·09	—100	0·5	+0·3	0·20	+0·10	+100	0·1	—0·1	0·05	—0·02	—29
20. Central India, West	0·1	—0·7	0·02	—0·37	—95	0·7	0	0·14	—0·16	—53	0·3	—0·1	0·09	—0·08	—47
21. Do. do. East	0·3	—1·1	0·25	—0·43	—63	2·4	+0·9	0·95	+0·25	+36	2·0	+1·0	0·50	+0·10	+25
22. Berar	0·4	—0·3	0·11	—0·28	—72	1·0	+0·3	0·40	+0·04	+11	0·8	+0·1	0·23	—0·10	—30
23. Central Provinces, West	0·3	—0·8	0·10	—0·55	—85	3·0	+1·7	1·49	+0·80	+116	1·8	+0·6	0·66	+0·10	+18
24. Do. do. East	1·2	+0·3	0·61	+0·15	+33	5·6	+3·8	3·23	+2·12	+191	1·4	+0·1	0·47	—0·14	—23
25. Konkan	0	—0·2	0	—0·10	—100	0	—0·1	0·01	—0·04	—80	0·2	+0·1	0·06	0	0
26. Bombay Deccan	0·1	—0·2	0·04	—0·11	—73	0·1	—0·1	0·04	—0·05	—56	0·6	+0·3	0·22	+0·07	+47
27. Hyderabad, North	0·9	+0·6	0·38	+0·22	+137	2·0	+1·5	0·59	+0·34	+136	1·9	+1·2	0·49	+0·12	+32
28. Do. South	0·2	—0·1	0·10	—0·08	—44	1·4	+0·9	0·61	+0·37	+154	1·7	+1·0	0·65	+0·23	+56
29. Mysore	0	—0·2	0	—0·12	—100	0·8	+0·1	0·11	—0·02	—15	0·8	+0·2	0·35	+0·04	+13
30. Malabar	0·1	—1·1	0·06	—0·82	—93	0·8	—0·1	0·42	—0·13	—24	2·6	+0·2	1·42	—0·02	—1
31. Madras, Southeast	0·3	—1·0	0·10	—0·39	—90	0·3	—0·4	0·18	—0·29	—62	1·5	+0·7	1·69	+1·18	+231
32. Do. Deccan	0	—0·3	0	—0·20	—100	0·4	+0·2	0·13	—0·01	—7	0·5	+0·2	0·20	—0·01	—5
33. Do. Coast, North	0·3	—0·2	0·15	—0·23	—61	0·1	—0·5	0·07	—0·33	—83	0·6	—0·2	0·26	—0·25	—49

RAINFALL AND NUMBER OF RAINY DAYS WITH THEIR DEPARTURES FROM NORMAL IN 1933.

APRIL.					MAY.					JUNE.					JULY.				
RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
		"	"				"	"				"	"				"	"	
3·5	+1·0	1·92	+0·37	+24	13·5	+0·2	9·05	−3·26	−26	23·5	+5·0	24·93	+7·71	+45	25·5	+7·0	15·87	+1·49	+10
2·4	+0·5	1·94	+0·56	+41	10·9	1·7	12·29	+0·21	+2	24·9	+2·7	31·28	+5·76	+23	24·6	+0·5	26·60	−2·73	−9
2·1	−0·4	0·68	0·59	−46	12·5	+4·5	11·04	+5·11	+86	10·3	−0·6	7·13	−0·75	−10	11·1	+0·8	7·35	+0·25	+4
10·2	−1·8	7·57	−1·46	−16	14·2	+0·2	11·36	−0·05	−5	18·0	+0·2	18·42	+0·25	+1	17·9	−1·2	17·26	−1·42	−8
5·1	+0·6	4·97	+1·69	+52	9·9	+1·1	7·92	+0·23	+3	15·1	+0·7	15·58	+0·94	+6	10·7	+0·1	15·95	+0·94	+6
2·1	−0·4	1·10	−0·27	−20	8·7	+3·8	5·86	+2·58	+79	11·6	+0·1	11·20	+1·37	+14	18·2	+3·0	15·93	+2·95	+23
3·7	+2·2	1·48	+0·81	+121	5·6	+1·9	3·19	+1·12	+54	13·4	+2·8	9·29	+0·49	+6	17·9	+2·7	13·37	+0·50	+4
3·5	+2·4	2·16	+1·57	+266	4·8	+1·6	3·71	+1·43	+63	8·7	+0·1	7·20	−0·54	−7	13·8	+0·4	14·51	+2·30	+19
2·7	+2·2	1·37	+1·18	+621	3·2	+1·9	1·56	+0·88	+129	7·7	+2·2	4·71	−0·09	−2	10·7	−1·9	7·63	−3·95	−34
1·7	+0·9	0·79	+0·49	+163	3·8	+2·3	1·67	+1·00	+149	8·9	+4·1	9·83	+5·79	+143	11·9	+0·5	10·63	−0·80	−7
1·3	+0·1	0·43	−0·12	−22	3·3	+1·9	1·29	+0·67	+108	3·5	+0·6	2·87	+0·84	+41	7·4	+0·7	6·94	+0·68	+11
1·2	−0·1	0·39	−0·13	−25	2·2	+1·2	0·70	+0·28	+67	1·7	+0·3	0·96	+0·15	+19	2·7	−0·4	1·83	−0·65	−26
0·1	+0·4	3·38	−0·13	−4	2·6	−1·2	1·24	−0·73	−37	3·9	−0·4	2·38	−0·12	−5	9·4	+1·7	8·34	+1·24	+17
3·5	+0·3	1·27	−0·27	−18	2·0	+0·3	0·92	+0·15	+19	1·8	+0·2	1·85	+1·02	+119	3·6	0	2·89	+0·31	+12
2·3	+0·6	0·93	+0·23	+33	1·8	+1·1	0·62	+0·33	+114	0·3	−0·3	0·10	−0·20	−67	3·6	+2·0	1·94	+0·98	+102
0·6	+0·3	0·14	+0·03	+27	0·9	+0·6	0·24	+0·09	+60	0·1	−0·5	0·08	−0·39	−83	3·8	+1·3	4·29	+1·80	+72
1·1	+0·7	0·55	+0·39	+244	1·9	+1·0	0·71	+0·28	+65	2·3	+0·3	2·01	+0·71	+55	4·0	−0·5	2·03	−1·40	−41
2·1	+1·7	0·91	+0·75	+469	3·4	+2·1	1·25	+0·71	+131	7·2	+3·2	9·59	+6·82	+246	8·8	−1·1	5·71	−2·86	−33
0·4	+0·3	0·19	+0·16	+533	3·0	+2·4	2·11	+1·78	+539	4·8	−0·7	4·79	+0·36	−7	10·0	−2·5	9·47	−3·17	−25
1·5	+1·2	0·52	+0·37	+247	2·9	+1·8	1·19	+0·71	+148	8·3	+2·3	8·25	+3·36	+69	10·4	−1·4	10·29	−0·37	−3
3·0	+2·5	1·12	+0·88	+367	4·4	+3·3	1·64	+1·18	+257	7·5	+1·8	4·27	−0 70	−14	11·9	−2·0	7·98	−5·00	−39
0·8	+0·1	0·27	+0·03	+13	5·7	+4·6	2·32	+1·78	+330	11·6	+3·6	8·14	+2·08	+34	11·9	−0·3	8·60	−0·57	−6
2·1	+1·4	0·87	+0·57	+190	7·1	+5·7	3·57	+3·01	+537	10·4	+1·8	5·93	−1·40	−19	14·1	−0·7	14·87	+1·53	+11
2·9	+1·3	1·16	+0·42	+57	6·9	+5·1	3·45	+2·65	+331	13·8	+3·8	11·18	+1·88	+20	18·0	+1·8	18·01	+2·77	+18
1·1	+0·4	0·73	+0·35	+92	6·1	+4·2	5·22	+3·63	+228	21·8	+3·4	31·39	+6·02	+24	23·1	−2·8	36·45	−2·48	6
1·3	0	0·79	+0·17	+27	5·5	+3·1	3·17	+1·83	+137	9·1	+1·2	6·03	+0·83	+16	9·2	−2·0	6·35	−1·46	−19
2·4	+1·2	0·82	+0·31	+61	6·4	+4·8	2·93	+2·20	+301	13·2	+5·3	10·06	+4·55	+83	12·5	+0·7	8·59	+0·59	+7
1·9	+0·2	0·89	+0·08	+10	4·3	+2·1	2·39	+1·37	+134	11·1	+4·2	8·64	+4·31	+100	12·0	+1·3	6·03	−0·21	−3
3·2	+0·5	1·60	+0·14	+10	10·5	+4.9	7·02	+3·44	+96	6·8	−0·4	4·63	−0·17	−4	10·8	+1·1	7·67	+0·52	+7
7·4	+1·8	4·98	+1·21	+32	17·8	+9·0	28·20	+20·98	+291	23·5	+3·2	28·95	+5·25	+22	22·1	+2·3	25·30	+3·17	+14
2·6	+0·6	1·70	+0·41	+32	4·9	+1·1	3·22	+0·68	+27	1.9	−1·0	0·76	−0·80	−51	3·2	−0·6	1·60	−0·59	−27
1·7	+0·5	0·77	+0·15	+24	4·8	+1·8	2·90	+1·25	+76	3·1	−1·3	1·23	−1·14	−48	6·8	+0·5	3·43	+0·22	+7
1·6	0	0·94	−0·01	−1	4·6	+1·4	3·31	+1·20	+57	7·6	+0·8	5·21	+0·28	+6	11·7	+1·7	7·84	+1·21	+18

TABLE XII—AVERAGE OVER THE 33 SUB-DIVISIONS OF THE MONTHLY AND ANNUAL

SUB-DIVISION.	AUGUST.					SEPTEMBER.					OCTOBER.				
	RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
			"	"				"	"				"	"	
1. Bay Islands	12·5	—5·2	12·43	—0·65	—5	19·5	+1·7	27·69	+12·99	+88	15·0	+2·1	10·39	+1·61	+18
2. Lower Burma	19·5	—4·3	20·29	—6·85	—25	17·5	—1·0	19·19	+1·85	+11	10·5	+0·2	7·07	—0·63	—8
3. Upper Burma	12·8	+1·1	9·87	+1·59	+19	10·1	—0·6	6·72	—1·16	—15	6·5	—0·9	4·97	—0·51	—9
4. Assam	16·8	—1·1	18·66	+1·77	+10	10·8	—3·0	9·74	—2·84	—23	6·5	—0·2	4·83	—0·86	—15
5. Bengal	19·2	+2·7	19·55	+5·36	+38	12·4	+0·3	11·03	+0·20	+2	5·6	+0·3	4·53	—0·55	—11
6. Orissa	15·8	+0·2	19·27	+6·25	+48	13·0	+1·2	11·71	+2·78	+31	7·5	+2·0	6·29	+1·53	+32
7. Chota Nagpur	18·8	+2·4	15·75	+1·94	+14	10·2	+0·1	8·10	+0·07	+1	4·5	+0·7	2·87	—0·05	—2
8. Bihar	17·0	+3·7	15·55	+3·17	+26	9·3	+0·3	6·37	—2·38	—27	3·6	+0·9	2·88	+0·45	+19
9. United Provinces, East	12·0	—0·8	9·46	—1·89	—17	8·0	+0·6	5·76	—1·13	—16	2·9	+1·2	3·45	+1·57	+84
10. Do. do. West	12·4	+1·0	10·33	—0·24	—2	9·5	+3·5	8·20	+2·25	+38	3·2	+2·3	3·58	+2·70	+307
11. Punjab, East and North	12·0	+5·3	11·34	+4·95	+77	7·2	+3·9	8·16	+4·82	+144	0·8	+0·2	0·40	+0·02	+5
12. Do. Southwest	3·1	+5·0	6·76	+4·20	+164	2·6	+1·2	1·52	+0·40	+36	0	—0·2	0	—0·10	—100
13. Kashmir	11·5	+3·0	9·68	+1·97	+26	5·4	+1·5	3·39	—0·17	—5	2·2	+0·5	1·16	+0·11	+10
14. North West Frontier Province	6·9	+2·9	5·87	+2·71	+86	2·5	+0·6	1·49	+0·31	+26	0·3	—0·4	0·11	—0·22	—67
15. Baluchistan	2·3	+0·7	1·18	+0·17	+18	0·3	—0·1	0·20	—0·05	—20	0	—0·3	0	—0·15	—100
16. Sind	2·6	+0·3	3·22	+1·31	+69	2·1	+1·3	1·26	+0·64	+103	0	0	0	—0·05	—100
17. Rajputana, West	9·5	+4·5	8·53	+4·49	+111	2·6	+0·2	1·62	—0·40	—20	0·2	—0·2	0·03	—0·28	—90
18. Do. East	14·3	+4·5	11·25	+2·92	+35	8·5	+3·6	8·51	+4·51	+113	1·1	+0·4	0·77	+0·24	+45
19. Gujarat	14·6	+3·8	16·94	+8·80	+108	8·9	+3·2	8·43	+3·78	+81	1·0	—0·2	0·50	—0·41	—45
20. Central India, West	14·4	+2·4	13·48	+2·26	+20	9·1	+2·7	10·91	+5·61	+106	1·3	+0·2	0·91	+0·09	+11
21. Do. do. East	11·8	—2·4	7·94	—5·35	—40	9·1	+1·4	8·24	+1·55	+23	2·6	+0·9	2·13	+0·70	+49
22. Berar	13·4	+3·1	9·98	+3·03	+44	12·1	+4·3	11·78	+5·94	+102	4·4	+2·1	2·67	+1·09	+69
23. Central Provinces, West	15·9	+1·5	15·69	+2·91	+23	12·2	+2·9	12·24	+4·64	+61	3·3	+0·9	2·43	+0·61	+34
24. Do. do. East	16·0	+0·2	16·62	+1·71	+11	12·4	+2·6	10·86	+3·26	+43	3·0	+0·1	1·88	—0·38	—17
25. Konkan	19·5	—4·8	28·91	+5·10	+21	17·2	+2·1	19·62	+7·20	+58	10·1	+4·5	6·93	+2·63	+61
26. Bombay Deccan	11·3	+1·9	8·33	+3·41	+63	10·6	+2·4	9·55	+3·94	+70	7·2	+2·7	4·85	+1·84	+61
27. Hyderabad, North	10·9	+0·1	7·20	—0·03	0	11·4	+1·5	10·65	+2·55	+31	4·6	+1·3	2·56	+0·26	+11
28. Do. South	8·1	—2·1	6·45	+0·14	+2	7·6	—2·0	5·26	—1·56	—23	5·5	+1·2	5·67	+2·65	+88
29. Mysore	11·5	+2·8	8·69	+3·46	+66	8·5	+0·4	6·69	+1·51	+29	12·6	+4·8	9·65	+4·35	+82
30. Malabar	18·0	+1·9	15·78	+3·21	+26	20·9	+9·5	15·97	+8·14	+104	15·9	+2·5	14·06	+2·92	+26
31. Madras, Southeast	7·6	+2·2	5·92	+2·30	+64	5·0	—1·1	3·33	—1·17	—26	10·1	+1·3	7·23	+0·12	+2
32. Do. Deccan	9·2	+2·6	7·19	+3·28	+84	4·2	—3·7	3·65	—2·10	—37	7·6	+1·9	5·00	+0·83	+20
33. Do. Coast, North	9·7	—0·5	6·99	—0·10	—1	8·6	—0·8	7·53	+0·54	+8	9·1	+2·0	9·97	+3·23	+48

RAINFALL AND NUMBER OF RAINY DAYS WITH THEIR DEPARTURES FROM NORMAL IN 1933.

NOVEMBER.					DECEMBER.					YEAR.				
RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
		"	"				"	"				"	"	
7·0	—2·5	7·15	—0·43	—6	4·5	—0·5	2·23	—2·41	—52	126·5	+8·1	112·14	+15·75	+16
2·5	—0·9	1·83	—0·30	—30	0·1	— ·	0·04	—0·48	—92	113·5	—5·4	120·84	—3·66	—3
1·4	—1·5	0·67	—1·17	—64	0·3	—0·5	0·13	—0·33	—72	67·4	+0·3	48·67	+1·80	+4
1·0	—0·5	0·41	—0·52	—56	0·3	—0·5	0·09	—0·27	—75	101·7	—13·2	90·54	—9·96	—10
0·1	—0·9	0·08	—0·72	—90	0	—0·3	0·01	—0·15	—94	88·1	+3·8	81·56	+6·92	+9
0·9	—0·5	0·58	—0·78	—57	0·6	+0·2	0·34	+0·13	+62	84·0	+10·7	75·95	+17·52	+30
0·2	—0·5	0·08	—0·31	—79	0·4	+0·1	0·23	+0·09	+64	83·9	+16·3	59·52	+7·02	+13
0	—0·4	0	—0·28	—100	0	—0·2	0	—0·10	—100	64·5	+9·2	54·04	+5·73	+12
0	—0·4	0	—0·19	—100	0	—0·4	0	—0·22	—100	50·4	+4·3	35·24	—4·04	—10
0·1	—0·2	0·02	—0·13	—87	0·2	—0·5	0·05	—0·30	—86	55·4	+12·8	46·99	+9·77	+26
0·3	0	0·08	—0·05	—38	0·1	—0·8	0·04	—0·4	—91	40·7	+10·6	33·90	+10·65	+46
0	—0·2	0	—0·08	—100	0·2	—0·3	0·04	—0·18	—82	20·4	+4·1	12·69	+2·71	+27
0·9	0	0·31	—0·16	—34	0·2	—2·9	0·08	—1·87	—96	59·6	+3·5	42·37	+0·81	+2
0·1	—0·4	0·02	—0·26	—93	0·4	—0·7	0·10	—0·44	—81	29·3	+2·3	18·14	+2·54	+16
0·3	—0·3	0·06	—0·21	—78	0·5	—1·0	0·17	—0·46	—78	18·8	+1·8	8·18	—0·05	—1
0	—0·1	0	—0·06	—100	0	—0·3	0	—0·08	—100	10·9	+1·7	9·47	+2·78	+42
0	—0·1	0	—0·08	—100	0	—0·2	0	—0·1	—100	23·0	+5·6	15·96	+3·48	+28
0·7	+0·4	0·51	+0·34	+200	0·2	—0·3	0·11	—0·10	—48	47·5	+13·5	38·91	+12·76	+49
0·1	—0·2	0·06	—0·14	—70	0·4	+0·3	0·22	+0·18	+450	48·3	+6·4	42·96	+10·61	+33
0·9	+0·2	0·46	+0·01	+2	0·6	+0·2	0·21	+0·04	+24	50·5	+8·3	46·47	+11·47	+33
0·2	—0·4	0·08	—0·25	—76	0·1	—0·5	0·02	—0·24	—92	55·3	+5·4	35·12	—7·32	—17
0·6	—0·4	0·26	—0·31	—54	1·4	+0·7	0·87	+0·48	+123	64·1	+17·9	45·68	+13·21	+41
0·9	+0·1	0·38	—0·18	—32	1·0	+0·4	0·37	+0·05	+16	72·1	+15·5	58·60	+12·09	+26
0·7	0	0·37	—0·03	—7	0·6	0	0·21	—0·08	—28	82·5	+19·1	68·05	+14·33	+27
1·3	—0·2	0·67	—0·35	—34	1·7	+1·4	1·08	+0·94	+671	102·1	+8·0	131·07	+22·90	+21
2·1	+0·5	1·19	+0·18	+18	1·7	+1·2	0·90	+0·62	+221	58·8	+11·0	41·96	+11·27	+37
1·5	+0·2	0·63	—0·14	—18	2·4	+1·8	1·25	+0·89	+247	70·1	+20·2	46·15	+11·86	+35
2·7	+0·8	2·06	+1·00	+94	2·6	+2·2	1·82	+1·60	+727	59·1	+9·7	40·57	+9·90	+32
1·2	—2·6	0·58	—1·84	—76	2·7	+1·9	1·74	+1·29	+287	68·9	+13·5	48·78	+12·60	+35
7·1	—2·1	5·63	—1·51	—21	2·4	—0·2	1·46	—0·32	—18	138·6	+26·9	142·23	+42·08	+42
6·3	—2·1	4·89	—2·59	—35	3·[illegible]	—0·9	4·36	+1·48	+44	47·0	—1·2	35·48	—0·16	0
1·9	—1·4	1·64	—0·52	—24	2·5	+1·8	1·56	+1·15	+280	42·7	+2·8	27·70	+2·90	+12
3·1	—0·6	2·64	—1·04	—28	2·0	+1·1	1·90	+1·05	+124	59·0	+4·2	46·81	+5·55	+13

TABLE XIII.—AVERAGE OVER THE 15 CHIEF POLITICAL DIVISIONS OF THE ACTUAL RAINFALL WITH ITS DEPARTURE FROM NORMAL FOR THE FOUR SEASONS OF THE YEAR, AND FOR THE WHOLE YEAR, 1933.

Division.	January and February.			March to May.			June to September.			October to December.			Whole year.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
	"	"		"	"		"			"	"		"	"	
Burma	0·08	—0·25	—76	13·00	+2·47	+23	61·34	—0·93	—1	7·22	—1·96	—21	81·64	—0·67	—1
Assam	1·56	—0·65	—29	19·57	—5·42	—22	64·08	—2·24	—3	5·33	—1·65	—24	90·54	—9·96	—10
Bengal	1·75	+0·46	+36	13·08	+0·44	+3	62·11	+7·44	+14	4·62	—1·42	—24	81·56	+6·92	+9
Bihar and Orissa	2·90	+1·48	+104	5·98	+1·99	+50	47·89	+5·35	+13	4·01	+0·20	+5	60·78	+9·02	+17
United Provinces	1·15	—0·36	—24	2·88	+1·49	+107	33·92	+0·44	+1	3·56	+1·76	+98	41·51	+3·33	+9
Punjab	0·87	—1·04	—54	2·56	+0·62	+32	24·79	+9·50	+62	0·40	—0·42	—51	28·62	+8·66	+43
North-West Frontier Province	1·64	—0·83	—34	4·14	—0·06	—1	12·13	+4·35	+56	0·23	—0·92	—80	18·14	+2·54	+16
Sind	0·14	—0·38	—73	0·48	—0·01	—2	8·85	+3·36	+61	0	—0·19	—100	9·47	+2·78	+42
Rajputana	0·26	—0·31	—54	1·96	+1·09	+127	27·77	+8·60	+45	0·91	+0·16	+21	30·89	+9·54	+45
Bombay	0·11	—0·09	—45	3·92	+2·36	+151	48·65	+9·07	+23	5·24	+1·75	+50	57·92	+13·09	+29
Central India	0·41	—0·44	—52	2·14	+1·28	+149	39·54	+6·10	+18	1·73	+0·15	+9	43·82	+7·09	+19
Central Provinces	2·33	+1·02	+78	4·54	+2·88	+173	49·72	+9·20	+23	3·02	+0·26	+9	59·61	+13·36	+29
Hyderabad	0·85	+0·43	+102	4·10	+2·19	+115	31·72	+5·32	+20	6·77	+2·95	+77	43·44	+10·89	+33
Mysore	0·11	—0·14	—56	8·97	+3·62	+68	27·68	+5·32	+24	11·97	+3·80	+47	48·73	+12·60	+35
Madras	0·30	—0·88	—75	12·79	+6·79	+113	34·22	+5·29	+18	16·58	+0·77	+5	63·89	+11·97	+23
Mean of India	0·90	—0·11	—11	6·98	+1·94	+38	41·73	+5·10	+14	5·17	+0·14	+3	54·78	+7·07	+15

TABLE XIV.—AVERAGE OVER THE 33 SUB-DIVISIONS OF THE ACTUAL RAINFALL WITH ITS DEPARTURE FROM NORMAL FOR THE FOUR SEASONS OF THE YEAR AND FOR THE WHOLE YEAR, 1933.

Sub-division.	January and February.			March to May			June to September.			October to December.			Whole year.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
	"	"		"	"		"	"		"	"		"	"	
1. Bay Islands	0·32	—1·37	—81	11·13	—3·18	—22	80·92	+21·53	+36	19·77	—1·23	—6	112·14	+15·75	+16
2. Lower Burma	0·08	—0·25	—76	14·46	+0·47	+3	97·36	—1·97	—2	8·94	—1·91	—18	120·84	—3·66	—3
3. Upper Burma	0·07	—0·26	—79	11·76	+4·14	+54	31·07	—0·07	0	5·77	—2·01	—26	48·67	+1·80	+4
4. Assam	1·56	—0·65	—29	19·57	—5·42	—22	64·08	—2·24	—3	5·33	—1·65	—24	90·54	—9·96	—10
5. Bengal	1·75	+0·46	+36	13·08	+0·44	+3	62·11	+7·44	+14	4·62	—1·42	—24	81·56	+6·92	+9
6. Orissa	3·43	+1·82	+113	7·20	+1·47	+26	58·11	+13·35	+30	7·21	+0·88	+14	75·95	+17·52	+30
7. Chota Nagpur	4·92	+3·03	+160	4·91	+1·26	+35	46·51	+3·00	+7	3·18	—0·27	—8	59·52	+7·02	+13
8. Bihar	1·67	+0·55	+49	5·91	+2·56	+76	43·63	+2·55	+6	2·83	+0·07	+3	54·04	+5·73	+12
9. United Provinces, East.	1·17	—0·01	—1	3·06	+1·87	+157	27·56	—7·06	—20	3·45	+1·16	+51	35·24	—4·04	—10
10. United Provinces, West.	1·13	—0·66	—37	2·72	+1·16	+74	39·49	+7·00	+22	3·65	+2·27	+164	46·99	+9·77	+26
11. Punjab, East and North.	1·10	—1·11	—50	2·97	+0·90	+43	29·31	+11·29	+63	0·52	—0·43	—45	33·90	+10·65	+46
12. Punjab, Southwest	0·22	—0·81	—79	1·36	—0·22	—14	11·07	+4·10	+59	0·04	—0·36	—90	12·69	+2·71	+27
13. Kashmir	6·46	—0·70	—10	10·57	+0·51	+5	23·79	+2·92	+14	1·55	—1·92	—55	42·37	+0·81	+2
14. North-West Frontier Province.	1·64	—0·83	—34	4·14	—0·06	—1	12·13	+4·35	+56	0·23	—0·92	—80	18·14	+2·54	+16
15. Baluchistan	2·04	—0·37	—15	2·49	+0·24	+11	3·37	+0·90	+36	0·23	—0·82	—78	8·13	—0·05	—1
16. Sind	0·14	—0·38	—73	0·48	—0·01	—2	8·85	+3·36	+61	0	—0·19	—100	9·47	+ 2·78	+42
17. Rajputana, West	0·32	—0·10	—24	1·42	+0·65	+84	14·19	+3·40	+32	0·03	—0·47	—94	15·96	+3·48	+28
18. *Do.* East	0·23	—0·42	—65	2·23	+1·31	+142	35·06	+11·39	+48	1·39	+0·48	+53	38·91	+12·76	+49
19. Gujarat	0·20	+0·01	+5	2·35	+1·92	+447	39·63	+9·05	+30	0·78	—0·37	—32	42·96	+10·61	+33
20. Central India, West	0·16	—0·53	—77	1·80	+1·00	+125	42·93	+10·86	+34	1·58	+0·14	+ 0	46·47	+11·47	+33
21. Central India, East.	1·20	—0·18	—13	3·26	+2·16	+196	28·43	—9·50	—25	2·23	+0·20	+10	35·12	—7·32	—17
22. Berar	0·51	—0·24	—32	2·32	+1·71	+154	38·50	+10·48	+37	3·80	+1·26	+50	45·63	+13·21	+41
23. Central Provinces, West.	1·59	+0·25	+19	5·10	+3·68	+259	48·73	+7·68	+19	3·18	+0·48	+18	58·60	+12·09	+26
24. Central Provinces, East.	3·84	+2·27	+145	5·08	+2·93	+136	56·67	+9·62	+20	2·46	—0·49	—17	68·05	+14·33	+27
25. Konkan	0·01	—0·14	—93	6·01	+3·98	+196	116·37	+15·84	+16	8·68	+3·22	+59	131·07	+22·90	+21
26. Bombay, Deccan	0·08	—0·16	—67	4·18	+2·07	+98	30·76	+6·72	+28	6·94	+2·64	+61	41·96	+11·27	+37
27. Hyderabad, North	0·97	+0·56	+137	4·24	+2·63	+163	36·50	+7·66	+27	4·44	+1·01	+29	46·15	+11·86	+35
28. Do. South	0·71	+0·29	+69	3·93	+1·68	+75	26·38	+2·68	+11	9·55	+5·25	+122	40·57	+9·90	+32
29. Mysore	0·11	—0·14	—56	8·97	+3·62	+68	27·68	+5·32	+24	11·97	+3·80	+47	48·73	+12·60	+35
30. Malabar	0·48	—0·95	—66	34·60	+22·17	+178	86·00	+19·77	+30	21·15	+1·09	+5	142·23	+42·08	+42
31. Madras, Southeast	0·28	—1·18	—81	6·61	+2·27	+52	11·61	—0·26	—2	16·98	—0·99	—6	35·48	—0·16	0
32. Do. Deccan	0·13	—0·21	—62	3·87	+1·39	+56	15·50	+0·26	+2	8·20	+1·46	+22	27·70	+2·90	+12
33. Do. Coast, North.	0·22	—0·56	—72	4·51	+0·94	+26	27·57	+1·93	+8	14·51	+3·24	+29	46·81	+5·55	+13

TABLE XV.—AVERAGE OVER THE 33 SUB-DIVISIONS OF ACTUAL NUMBER OF RAINY DAYS WITH THEIR DEPARTURES FROM NORMAL FOR THE FOUR SEASONS OF THE YEAR AND FOR THE WHOLE YEAR, 1933.

SUB-DIVISION.	JANUARY AND FEBRUARY.		MARCH TO MAY.		JUNE TO SEPTEMBER.		OCTOBER TO DECEMBER.		WHOLE YEAR.	
	Actual.	Departure from Normal.	Actual.	Departure from Normal.	Actual.	Departure from Normal.	Actual.	Departure from Normal.	Actual.	Departure from Normal.
1. Bay Islands	1·5	—0·5	17·5	+1·0	81·0	+8·5	26·5	—0·9	126·5	+8·1
2. Lower Burma	0·2	—0·4	13·7	—1·5	86·5	—2·1	13·1	—1·4	113·5	—5·4
3. Upper Burma	0·2	—0·7	14·7	+3·2	44·3	+0·7	8·2	—2·9	67·4	+0·3
4. Assam	4·4	—0·6	26·0	—6·3	63·5	—5·1	7·8	—1·2	101·7	—13·2
5. Bengal	3·5	+1·2	15·5	—0·3	68·4	+3·8	5·7	—0·9	88·1	+3·8
6. Orissa	5·0	+2·4	11·4	+2·1	58·6	+4·5	9·0	+1·7	84·0	+10·7
7. Chota Nagpur	8·2	+4·7	10·3	+3·3	60·3	+8·0	5·1	+0·3	83·9	+16·3
8. Bihar	3·7	+1·3	8·4	+3·1	48·8	+4·5	3·6	+0·3	64·5	+9·2
9. United Provinces East	2·8	+0·1	6·3	+3·7	38·4	+0·1	2·9	+0·4	50·4	+4·3
10. Do. Do. West	2·9	—0·6	6·3	+2·7	42·7	+9·1	3·5	+1·6	55·4	+12·8
11 Punjab East and North	2·5	—1·7	6·9	+2·4	30·1	+10·5	1·2	—0·6	40·7	+10·6
12. Do. Southwest	0·8	—1·7	4·3	+0·4	15·1	+6·1	0·2	—0·7	20·4	+4·1
13. Kashmir	10·2	+0·1	15·9	0	30·2	+5·8	3·3	—2·4	59·6	+3·5
14. North West Frontier Province	4·2	—0·8	9·5	+0·9	14·8	+3·7	0·8	—1·5	29·3	+2·3
15. Baluchistan	5·1	0	6·4	+1·1	6·5	+2·3	0·8	—1·6	18·8	+1·8
16. Sind	0·5	—0·8	1·8	+0·7	8·6	+2·3	0	—0·5	10·9	+1·7
17. Rajputana West	1·0	0	3·4	+1·6	18·4	+4·5	0·2	—0·5	23·0	+5·6
18. Do. East.	0·9	—0·7	5·8	+3·5	38·8	+10·2	2·0	+0·5	47·5	+13·5
19. Gujarat	0·5	+0·1	3·5	+2·6	38·3	+8·8	1·5	—0·1	43·8	+6·4
20. Central India West	0·8	—0·7	4·7	+2·9	42·2	+6·0	2·8	+0·6	50·5	+8·8
21. Do. Do. East	2·7	—0·2	9·4	+6·8	40·3	—1·2	2·9	0	55·3	+5·4
22. Berar	1·4	0	7·3	+4·8	49·0	+10·7	6·4	+2·4	64·1	+17·9
23. Central Provinces, West	3·3	+0·9	11·0	+7·7	52·6	+5·5	5·2	+1·4	72·1	+15·5
24. Do. Do. East	6·8	+4·1	11·2	+6·5	60·2	+8·4	4·3	+0·1	82·5	+19·1
25. Konkan	0	—0·3	7·4	+4·7	81·6	—2·1	13·1	+5·7	102·1	+8·0
26. Bombay, Deccan	0·2	—0·3	7·4	—3·4	40·2	+3·5	11·0	+4·4	58·8	+11·0
27. Hyderabad, North	2·9	+2·1	10·7	+7·2	48·0	+7·6	8·5	+3·3	70·1	+20·2
28. Do. South	1·6	+0·8	7·9	+3·3	38·8	+1·4	10·8	+4·2	59·1	+9·7
29. Mysore	0·3	—0·1	14·5	+5·6	37·6	+3·9	16·5	+4·1	68·9	+13·5
30. Malabar	0·9	—1·2	27·8	+11·0	84·5	+16·9	25·4	+0·2	138·6	+26·9
31. Madras, Southeast	0·6	—1·4	9·0	+2·4	17·7	—0·5	19·7	—1·7	47·0	—1·2
32. Do., Deccan	0·4	—0·1	7·0	+2·5	23·3	—1·9	12·0	+2·3	42·7	+2·8
33. Do. Coast North	0·4	—0·7	6·8	+1·2	37·6	+1·2	14·2	+2·5	59·0	+4·2

TABLE XVI.—SHOWING RAINFALL OF 10″ AND OVER, WITH AMOUNTS IN THE PRECEDING AND FOLLOWING 24 HOURS, DURING THE YEAR 1933.

Province and District.	Station.	Date.	AMOUNT.		
			Preceding day.	On date in column 3	Succeeding day.
1	2	3	4	5	6
BURMA.			"	"	"
Akyab	Akyab	26th May	1·98	14·06	2·49
Do.	Myohaung	26th May	0	10·66	0·80
Do.	Pauktaw	25th May	0·14	11·15	4·00
Bhamo	Sinlumkaba	18th Aug.	5·80	11·96	9·36
Sandoway	Sandoway	2nd Aug.	6·75	13·96	3·06
ASSAM.					
Kamrup	Menoka	6th June	1·00	10·82	4·50
Khasi and Jaintia Hills.	Cherrapunji Police Station.	25th June	5·93	10·05	4·77
Do.	Cherrapunji Welsh Mission House.	25th June	9·50	19·80	15·90
Do.	Do.	26th June	19·80	15·90	3·60
Kamrup	Barduar	3rd July	2·48	10·53	1·18
Khasi and Jaintia Hills.	Cherrapunji Police Station.	2nd July	3·16	10·99	13·40
Do.	Do.	3rd July	10·99	13·40	1·26
Do.	Cherrapunji Welsh Mission House.	2nd July	9·40	11·56	16·25
Do.	Do.	3rd July	11·56	16·25	1·71
Sylhet	Sunamganj	19th Aug.	2·30	10·10	1·80
Khasi and Jaintia Hills.	Cherrapunji Welsh Mission House.	13th Aug.	3·59	12·11	4·63
Sylhet	Sylhet	2nd Sept.	3·18	11·08	10·50
Do.	Do.	3rd Sept.	11·08	10·50	0·67
BENGAL.					
Hooghly	Chanditala	23rd June	3·20	10·23	1·25
Dinajpur	Thakurgaon	26th June	3·15	19·09	0·30
Do.	Setalganj	26th June	3·20	13·18	0·40
Rangpur	Bagdogra (Nilphamari).	25th June	5·10	17·62	0·80
Do.	Saidpur	25th June	7·04	12·93	0·05
Cooch Behar	Miekliganj	26th June	2·35	12·29	1·78
Dacca	Munshiganj	3rd July	2·93	10·09	5·11
Chittagong	Kutabdia	14th Aug.	5·82	10·96	2·10
24-Parganas	Saugor Island (Obsy.).	17th Oct	4·76	12·66	0·03
BIHAR AND ORISSA.					
Purnea	Kishanganj	26th June	0·95	14·56	0·57
Angul	Balandapara	17th June	5·50	11·43	0·12
Muzaffarpur	Katra	11th July	6·40	14·80	0
Shahabad	Bhabua	21st Aug.	0·85	10·82	10·50
Do.	Do.	22nd Aug.	10·82	10·50	1·31
Cuttack	Jagatsingpur	4th Aug.	3·77	12·11	0·10
Do.	Cuttack	4th Aug.	4·60	11·85	0·15
Do.	Salepur	3rd Aug.	3·00	10·00	0
UNITED PROVINCES.					
Saharanpur	Jarauda	19th Sept.	0	13·00	3·00
Do.	Salimpur	19th Sept.	0·43	11·21	0·21
Muzaffarnagar	Bhainswal	19th Sept.	0·30	12·50	0
Do.	Kandhla	19th Sept.	0·40	11·00	0
PUNJAB.					
Patiala	Barthala	15th Aug.	0·40	10·45	0
Rohtak	Rohtak	19th Sept.	3·45	19·06	0
Do.	Jhajjar	19th Sept.	4·00	12·80	0
Do.	Beri	19th Sept.	0	11·00	0
Do.	Sonepat	19th Sept.	3·25	10·15	0
Karnal	Panipat	19th Sept.	0·73	10·00	0·08
Jind State	Safidan	19th Sept.	0·45	10·00	0·62

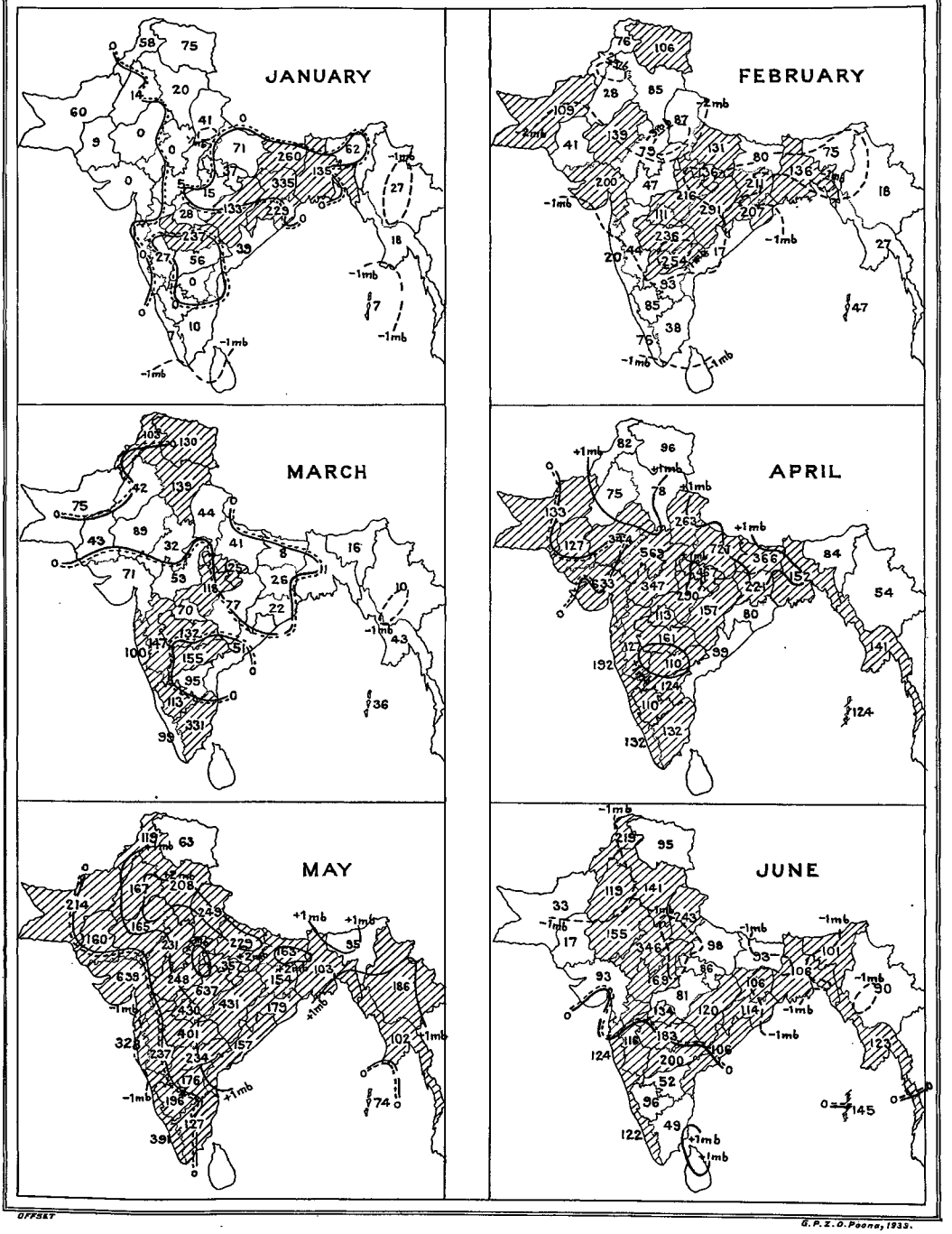
Province and District.	Station.	Date.	AMOUNT.		
			Preceding day.	On date in column 3	Succeeding day.
1	2	3	4	5	6
RAJPUTANA.			"	"	"
Kotah	Mangrol	25th June	0·43	15·42	4·31
Do.	Indargarh	25th June	0·10	13·92	0·90
Jaisalmer	Bap	8th Aug.	0	10·50	0
Bikaner	Palana	7th Aug.	1·40	10·47	3·23
Sirohi	Abu Road	6th Aug.	1·81	10·21	0·54
Banswara	Bhopatpura	16th Sept.	1·06	10·70	5·32
Kusalgarh	Kusalgarh	16th Sep	1·10	12·50	7·70
CENTRAL INDIA.					
Gwalior	Shivpuri	25th June	2·40	12·50	2·40
Bhopal	Raesen	10th Aug.	1·35	14·40	3·08
S. C. I. States Agency	Dhar	15th Sept.	1·58	10·76	3·10
Do.	Mandu	15th Sept.	1·85	11·40	0·92
CENTRAL PROVINCES.					
Raipur	Kondapar	18th June	0·60	10·50	1·54
Bilaspur	Dharampur	18th July	2·23	14·93	1·60
Bhandara	Pangree	10th Aug.	0·70	10·00	1·00
Balaghat	Lanji	10th Aug.	0·88	11·38	0·15
Amraoti	Chikalda	15th Sept.	2·54	10·85	1·54
BOMBAY.					
North Kanara	Kumta	2nd July	9·62	10·12	3·78
Kolaba	Mangaon	31st July	3·38	11·83	6·25
Satara	Mahabaleshwar (Malcolmpeth).	30th July	5·85	10·30	8·50
Poona	Lanoli	28th July	4·95	14·74	9·45
Savantvadi	Savantvadi	27th July	1·25	10·88	2·90
Do.	Banda	27th July	1·20	11·23	3·38
Baroda State	Dwarka	17th July	0·42	10·78	0·06
Kolaba	Matheran	1st Aug.	7·42	10·03	9·60
Do.	Do.	5th Aug.	8·90	11·05	7·56
Satara	Mahabaleshwar (Malcolmpeth)	3rd Aug.	9·45	10·15	11·90
Do.	Do.	4th Aug.	10·15	11·90	12·95
Do.	Do.	5th Aug.	11·90	12·95	8·10
Poona	Lanoli	5th Aug.	6·31	10·72	5·47
Kaira	Mehmadabad	11th Aug.	0	13·74	4·75
Do.	Wanghroli Tank	1st Aug.	0·13	10·77	0·64
Panch Mahals	Kalol	11th Aug.	0·09	10·00	1·89
Do.	Dohad	11th Aug.	0·03	11·20	0·08
Gujarat States	Dharampur	2nd Aug.	5·70	11·30	10·35
Do.	Do.	3rd Aug.	11·30	10·35	9·25
Baroda State	Dwark	7th Aug.	0·95	11·90	0
Kathiawar	Veraval	2nd Aug.	0·16	10·05	6·33
Kolaba	Matheran	18th Sept.	2·40	12·30	6·05
Surat	Waghai	18th Sept.	1·50	16·66	0·70
MYSORE.					
Shimoga	Tirthaballi	11th July	3·65	10·25	3·35
MADRAS.					
Cochin State	Irinjalakuda	26th May	2·78	12·43	3·86
Malabar	Chowghat	26th May	0·63	11·42	3·69
Do.	Triprayar	26th May	0·97	10·20	5·52
South Kanara	Mulki	1st July	3·65	11·35	5·15
Do.	Udipi	4th July	5·82	10·73	8·67
Vizagapatam Agency.	Lamma singhi	18th Oct.	4·00	17·60	1·20
East Godavari Agency.	Polavaram	19th Oct.	2·60	10·20	1·00
Do.	Chodavaram	19th Oct.	0·95	10·15	5·25
South Arcot	Mannargudi	16th Dec.	2·16	10·44	2·18
Tanjore	Tranquebar	16th Dec.	1·05	14·90	0
Trichinopoly	Ariyalur	16th Dec.	0·68	12·96	6·62

GIPD—202 D. G. of Obs.—14-11-35—200.

SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS)
AND MEAN MONTHLY PRESSURE ANOMALIES (IN MILLIBARS)

1933

Plate A1



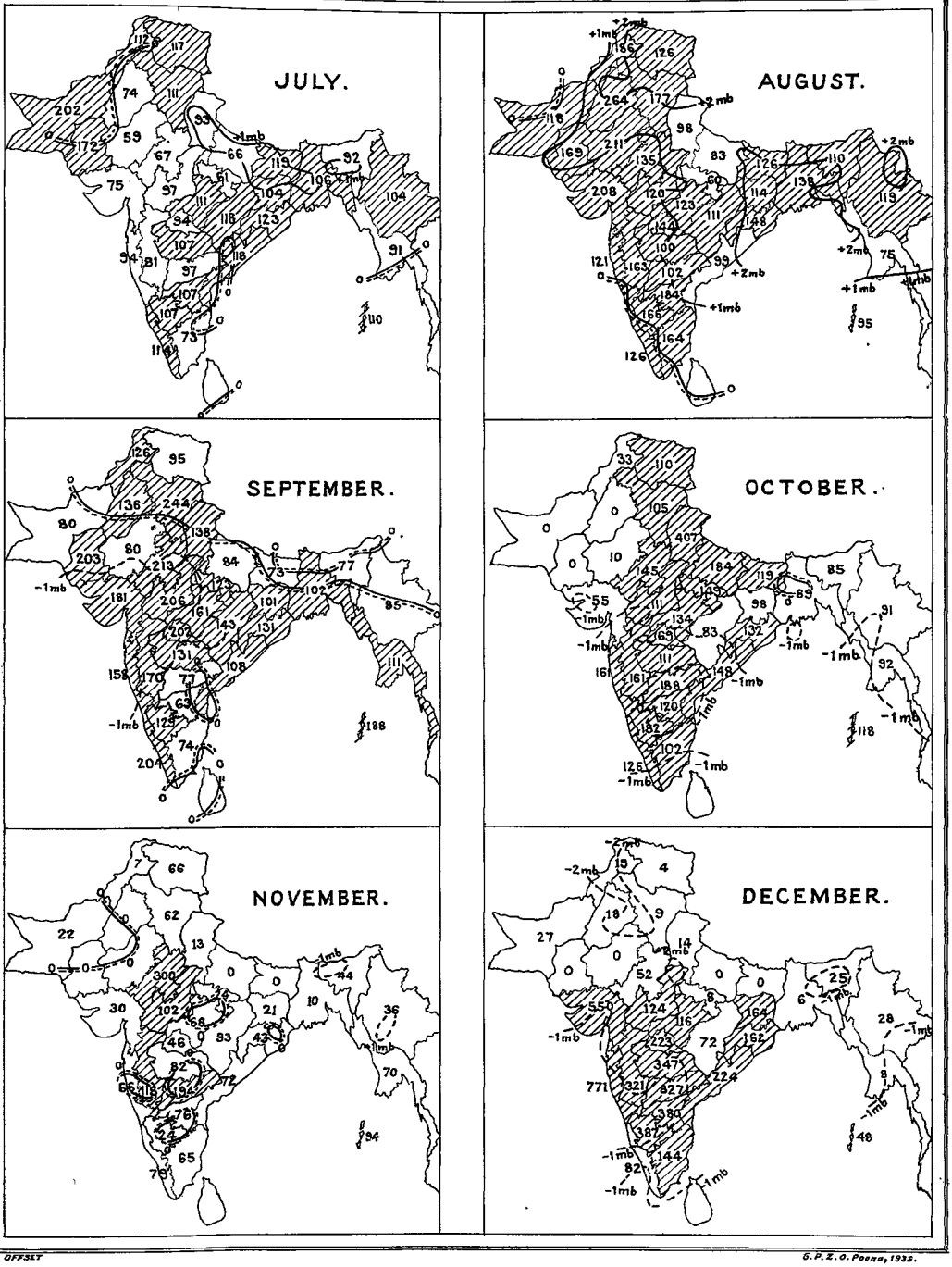
OFFSET

G.P.I.O. Poona, 1933.

SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS)
AND MEAN MONTHLY PRESSURE ANOMALIES (IN MILLIBARS)

1933

Plate A2

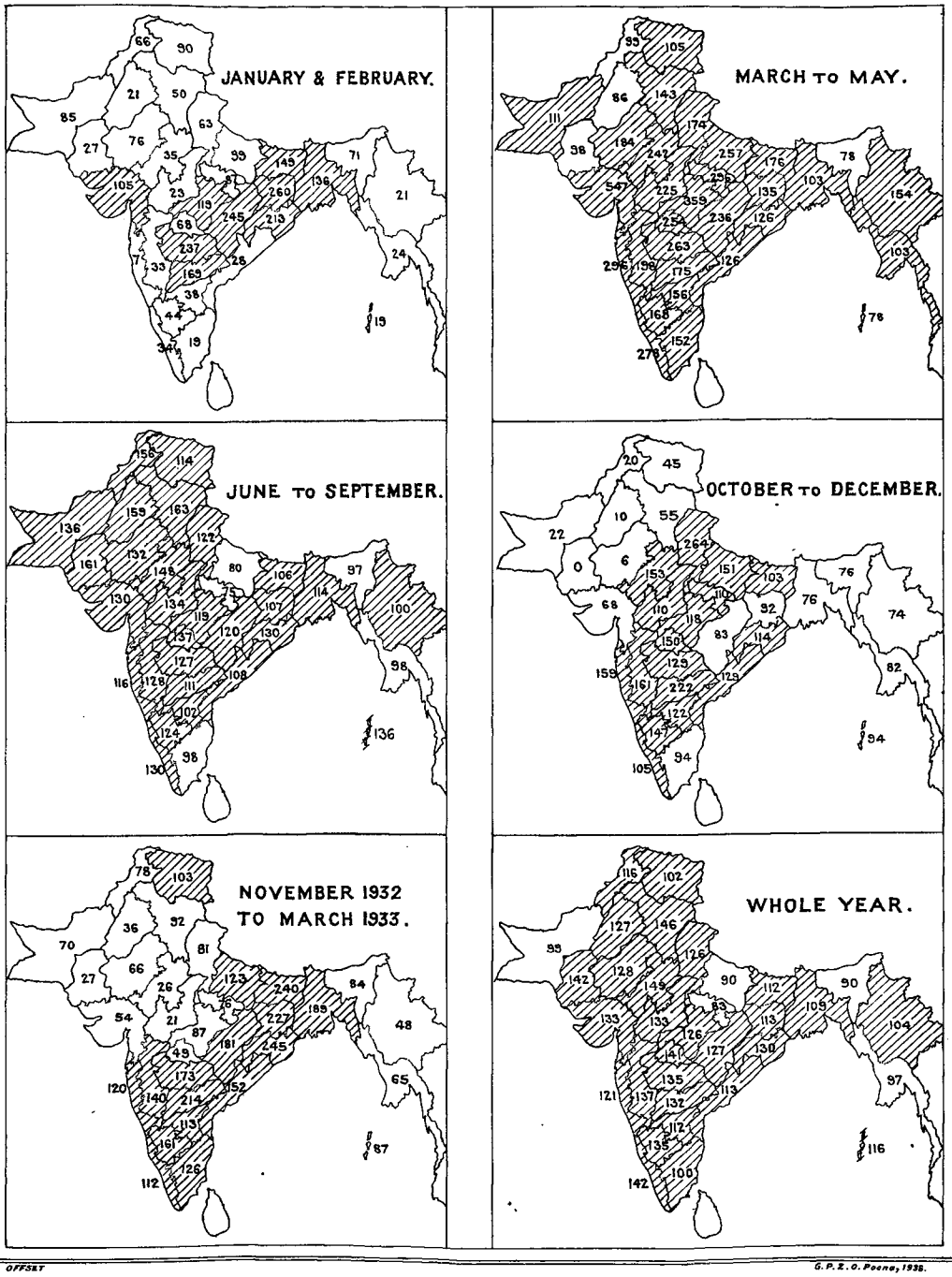


OFFSET

G.P.Z.O. Poona, 1935.

SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS)
IN DIFFERENT PERIODS OF THE YEAR 1933

Plate A3



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NO—WR 33/B.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW

ANNUAL SUMMARY FOR 1933

PART B

SNOWFALL

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Published by Authority of the Government of India

UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.

Director General of Observatories

DELHI: MANAGER OF PUBLICATIONS

1934

Price As. 5 or 6d.

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ANNUAL SUMMARY, 1933.

PART B.

SNOWFALL.

Introduction.

This part contains a summary of the reports of snowfall in the mountain regions to the north and northwest of India. These reports are collected by the local officers from the local residents, headmen of villages or from travellers who have passed through the region and are then transmitted to this office.

The amount of snowfall is usually measured by finding the depth of undisturbed snow lying on the ground and such measurements are given in feet and inches. At places provided with raingauges the amount of snow collected in the gauge is melted and measured as rain and the amounts are given in inches and decimals of an inch.

Cold weather period, January and February.

I.—PERSIA.

No reports were received.

II.—AFGHANISTAN.

Kabul.—Snow lay to a depth of one foot for nearly six weeks at the British Legation at Kabul. Snowfall in Afghanistan was heavier than usual during these months. The winter was much colder than in any of the three previous years.

III.—BALUCHISTAN.

Quetta.—At Quetta light snow mixed with rain fell on four days in January and on three days in February. The winter snowfall in Baluchistan is reported to have been heavier than usual.

IV.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Hazara.*—The snowfall both in January and February was above normal. The snow descended to an elevation of 3,000 ft. in January and rose to 4,000 ft. in February.

The following table gives the falls and accumulations recorded at the end of each month :—

Locality.	JANUARY.		FEBRUARY.	
	Falls.	Accumulations.	Falls.	Accumulations.
	Ft.	Ft.	Ft.	Ft.
Narang	8½	3⅓	6½	3½
Paludran	6¼	2⅜	5¼	2⅜
Kagan	5	1⅓	3¼	½
Jared	2½	¼	¼	..
Malkandi	1⅓	1½	¼	..
Sundigali	15½	1	3½	1½
Jachha	15	1	3	..
Thandiani	5⅜	4	2½	3
Birangali	3½	3½	1	½
Dungagali	5	4	5	6

(*b*) *Dir, Swat and Chitral.*—No information was received.

(*c*) *Khyber Agency.*—Snowfall in January and February was normal.

(*d*) *Kohat.*—Fort Lockhart had about 1½ ft. of snow in January and ½ ft. in February.

(*e*) *North Waziristan.*—At Razmak snowfall in January amounted to a little over 7″ while in February it was ½″.

V.—KASHMIR.

(*a*) *Skardu.*—Snow fell at the station and on the neighbouring peaks on four days in January and seven days in February. The falls were below normal.

(*b*) *Dras.*—Snowfalls were very frequent on the Zojila and Mushko passes and the adjacent mountains occurring on 21 days in January and on 16 days in February. The snowline descended as far as the populated villages. The accumulations at the passes were about 5 ft. at the end of January and 7 ft. at the end of February. Snowfall is reported to be below average in January and above it in February.

(*c*) *Srinagar.*—Light to moderate falls of snow were received in the main valley on 16 days in January and on 4 days in February. The snow accumulations on the Pir Panjal and Harmukh mountain ranges were moderate to heavy at the end of February.

(*d*) *Karyil.*—Snow fell on 12 days in January and on 9 days in February. On the Zojila pass snow lay to a depth of 7 ft. at the end of January and is estimated to be about 10 ft. at the end of February.

VI.—PUNJAB.

(*a*) *Murree.*—Snow fell four times in January and thrice in February at Murree and on the neighbouring peaks within a radius of about 8 miles. The total depth of snowfall at Murree was 4′—8″ during January and nearly a foot in February.

(*b*) *Kulu* (*Kangra District*).—In the Kangra District there were no falls during the season except on the high ranges of the Himalayas. In the Kulu sub-division there was sufficient snowfall above a height of 5,200 ft. in January and above 6,000 ft. in February.

(*c*) *Kilba* (*Simla District*).—Snow fell on 12 days in January and on 7 days in February. Snowfall was above normal,

and the snow-line descended to the level of the Sutlej river (5,500 ft.).

VII.—United Provinces.

(*a*) *Almorah.*—The following tables give the falls and accumulations of snow for the two months :—

Actuals.

Locality.	Amounts of snow for January.	Amounts of snow for February.
	Ft.	Ft.
Biyans	8¼	11⅔
Malla Darma	10	9½
Malla Danpur	6½	13

Accumulations.

Locality.	At the end of January.	At the end of February.
	Ft.	Ft.
Nuwe Pass	10	25
Lampia Pass	18	18
Lepu Pass	18	14

Snowfall was above normal in both the months and the accumulations were much above normal.

(*b*) *Garhwal.*—Snow fell on five days in each of the months, the amounts being 5 ft. in January and 2 ft. in February.

VIII.—Assam.

(*a*) *Kamrup.*—The following table gives the accumulations recorded at the end of each month :—

Locality.	January.		February.	
	Ft.	in.	Ft.	in.
Chirkimla	4	6	6	0
Yongla	0	4	0	3
Changkhar	0	3	0	2
Pangkhar	0	1	0	½
Thupkang	0	1	0	½
Karila	0	6	0	4

(*b*) *Sadiya Frontier Tract.*—No snowfall was reported.

(*c*) *Baliapara Frontier Tract.*—Heavy falls of snow occurred in January on the Se La, Pankim La, Piri La and Jhum La, that on the Piri La being the heaviest for years.

The hot weather period, March to May.

I.—Persia.

No reports were received.

II.—Afghanistan.

Kabul.—Snow was reported in Khanabad in March. Snow remained on the well-known peaks until the end of May, which is much later than usual.

III.—Baluchistan.

Quetta.—The snow accumulations on the hills melted away quickly owing to the unusually heavy rains during the spring. The highest pass was free of snow by the 15th March, and by the 15th May there was little or no snow except in shaded crevices on most peaks in Baluchistan.

IV.—North-West Frontier Province.

(*a*) *Hazara.*—Snowfall was observed on the surrounding hills on 13 days in March and was above normal. At the end of the month accumulations existed only on the outer hills above 6,000 ft. No information was received regarding April and May.

(*b*) *Dir, Swat and Chitral.*—Accumulations at the end of the period on well-known passes and peaks were far above normal in all the regions. Passes opened three weeks later than usual.

(*c*) *Khyber Agency.*—Falls of snow continued later than usual and were above normal at Tirah and other high ranges. Snow accumulations on the peaks of the Safed Koh at the end of the period were more in comparison with most years, and passes remained closed longer than usual.

(*d*) *Kohat.*—A light snowfall is reported from Fort Lockhart in March.

(*e*) *North Waziristan.*—No falls were reported and no accumulation existed at the end of the period.

V.—Kashmir.

(*a*) *Skardu.*—Snow fell on three days in March. In April and May there were no falls. The depth of snow on well-known passes was about 3 ft. at the end of the period.

(*b*) *Dras.*—Moderate snowfall occurred on 14 days in March, 11 days in April and 4 days in May on the passes and neighbouring mountains. The snowfall was above normal in March and April and below it in May. On the Mushko and Zojila passes the accumulations at the end of March were 15 and 20 ft. respectively. At the end of April they were about 12 ft. and had decreased to 6 ft. by the end of May.

(*c*) *Srinagar.*—Fresh light falls of snow were received in the main valley on two days in March, while moderate to heavy falls occurred on several days during all the three

months on the surrounding mountains. The snow accumulation at the end of the period was below normal.

(*d*) *Kargil.*—Snowfall occurred on 11 days in March and on 6 days in April upto the level of Kargil on each occasion. In May there was no snowfall. Accumulations at the end of the period on well-known passes and peaks were about 4 ft.

(*e*) *Sonamarg.*—Accumulations at the end of May were greater than usual.

(*f*) *Leh.*—There was more snow than usual on peaks and passes, and the northern pass was open only for pedestrians.

VI.—Punjab.

(*a*) *Murree.*—There was one snowstorm on the 25th March and snow fell to a depth of 7″. All the snow melted away by the end of April.

(*b*) *Chamba.*—Upto the middle of May there were occasional heavy falls of snow on elevations above 7,000 ft. Accumulations of snow at the end of the period were about 15 ft. on the well-known passes and peaks and were far above the average.

(*c*) *Kulu* (*Kangra District*).—Several falls occurred at elevations about 8,000 ft. in March and above 10,000 ft. in April.

Accumulations at the end of May on well-known passes and peaks are given in the following table :—

Locality.	Depth of Accumulations.
	Ft.
Rohtang Pass	6
Hampta Pass	6
Pujadhar	4
Chandarkhani	5

(*d*) *Kilba* (*Simla District*).—Snow fell on three days in March, and on five days in April generally down to elevations of 8,000 ft. In May snow fell on nine days and was confined to elevations about 10,000 ft. Accumulations at the end of each month were reported to be much above normal.

VII.—United Provinces.

(*a*) *Almorah.*—The following tables give the approximate amounts of falls and accumulations at the end of each month as reported by the Patwaris :—

Actuals.

Locality.	March.	April.	May.
	Ft. in.	Ft. in.	Ft. in
Biyans	6 9	20 0	31 0
Malla Darma	8 4	6 0	7 0
Malla Johar	4 0	7 0	..
Malla Danpur	0 6	2 0	0 6

Accumulations.

Locality.	March.	April.	May.
	Ft.	Ft.	Ft.
Nuwe	15	5¾	15
Lepu	4½	20	24
Lampia	6¾	30	36
Pindari	15	..	4
Kafini	5	8	4
Kantila	5	8	5
Nandakote	15	..	..
Phurkia	5	8	..

The snowfall for the season was reported to be above normal.

(*b*) *Garhwal.*—Snowfall during the period and its accumulations at the end of May were reported to be far above normal.

VIII.—Assam.

(*a*) *Kamrup.*—No snowfall occurred.

(*b*) *Sadiya Frontier Tract.*—Falls and accumulations were normal.

(*c*) *Baliapara Frontier Tract.*—The accumulations at the end of April were 2 to 3 ft. on the Piri La, Jhum La and Penkim La and very deep on the Se La.

South-West monsoon period, June to September.

June and July.

I.—Persia.

No reports were received.

II.—Afghanistan.

Kabul.—There were no falls during this period. The snow-levels were normal.

III.—North-West Frontier Province.

(*a*) *Hazara.*—Elevations from 10,000 to 17,500 ft. had falls ranging from ¼′ to ¾′ in both the months.

(*b*) *Dir, Swat, and Chitral.*—No snowfall was reported in this locality during the period. There was an abnormal accumulation of snow in the higher regions round about Chitral till the middle of June. The accumulations near Malakand were less than normal.

(*c*) *Khyber Agency.*—Near about Tirah no snowfall was reported during the period. As usual, snow existed on the tops of Gurdama, Malaka and Adina.

(*d*) *Kurram.*—No falls were reported. The accumulations on the peaks of the Safed Koh at the end of July were above normal.

(*e*) *South Waziristan.*—There were no accumulations of snow on any of the mountain ranges or passes in south Waziristan at the end of the period.

IV.—Kashmir.

(*a*) *Skardu.*—Fresh snowfall was observed on the adjacent hills on the 11th June, but none in July.

(*b*) *Dras.*—Falls occurred on six days in each of the months June and July. The depth of accumulations at the end of June and July measured 3 ft. and 2½ ft. respectively. Snowfall was below normal in June and normal in July.

(*c*) *Srinagar.*—On three days in June, *i.e.*, 1st, 10th and 22nd June, light to moderate falls were observed on the Pir Panjal and Harwan mountain ranges.

(*d*) *Gulmarg.*—Three fresh light to moderate falls were observed on the Afarwat range in June and one light fall in July. The falls were reported to be normal in June and below normal in July. Accumulations measured about 2 ft. at the end of June and about 6 inches at the end of July.

(*e*) *Kargil.*—There was no snowfall either in June or July. Snow disappeared from the passes by the end of July.

(*f*) *Gurez.*—The Razdaini Burzula were covered with snow at the end of July varying from 2 to 4½ ft. in depth. The accumulations were above normal.

(*g*) *Leh.*—There were slight snowfalls on peaks down to 17,000 ft. during the period. There was very little snow on the northern passes at the end of July.

V.—Punjab.

(*a*) *Chamba.*—There was no snowfall anywhere in the Chamba State during the period. Accumulations existed above elevations of 11,000 ft. and were above average.

(*b*) *Kulu.*—No snow fell during the period except for some light falls above 16,000 ft. in July. Snow accumulations at the end of the period were reported to be less than normal.

(*c*) *Kilba (Simla District).*—No definite information is available regarding snowfall on higher peaks. Owing to a cold spring the melting of snow was delayed and the passes and peaks which are usually clear by the 15th June were covered with snow even at the end of July. The estimated approximate accumulations on the well-known passes and peaks at the end of June and July are in the following table:—

Locality.	Depth of accumulations at the end of	
	June.	July.
	Ft.	Ft.
Kailash Peak	20	17
Rupin Ghat	9	7
Bruin Ghat	13	11
Cherang Pass	9	7 inches
Shatul Pass	10	8 ,,

VI.—United Provinces.

(*a*) *Almorah.*—The following tables give the amounts of falls and accumulations at the end of each month :—

Actuals.

Locality.	June.	July.
	Ft.	Ft.
Malla Danpur	½	..
Malla Darma	6⅕	3½
Biyans	7⅘	9
Chaudans	..	1

Accumulations.

Locality.	June.	July.
	Ft.	Ft.
Kafini	4	..
Ketols	5	..
Nuwe	10	5
Lepu	15	6
Lampia	22	9
Bikarun	..	4

(*b*) *Garhwal.*—There was about one foot of snow on hills of ordinary height and about 3 ft. on high peaks in both the months. Falls and accumulations were above normal.

August and September.

I.—Persia.

No reports were received.

II.—Afghanistan.

No reports were received.

III.—Baluchistan.

No falls occurred.

IV.—North-West Frontier Province.

A few falls occurred in the Hindu Raj Range at an elevation of about 19,000 ft. during the last week of August. In September snow-fall occurred in the neighbourhood of Chitral at heights above 10,000 ft.

V.—Kashmir.

(*a*) *Skardu.*—Seven falls were reported in August and five in September at elevations generally above 14,000 ft. The falls were above the average.

(*b*) *Dras.*—In August there were eleven days of snowfall on the Zojila and Mushko Passes. In September there were six days of fall. The falls were above normal. The accumulations on the Zojila and Mushko Passes were about six inches deep at the end of August and 1½ ft. at the end of the period, and were above normal.

(*c*) *Srinagar.*—No falls occurred and there were no accumulations at the end of the period.

(*d*) *Gulmarg.*—On the Afarwat range several fresh light falls were observed during August. The accumulations on the higher peaks were estimated to be 3 inches at the end of August.

(*e*) *Kargil.*—No snowfall occurred in August. In September the adjoining Nacthala peak experienced falls on four days. There were no accumulations at the end of the period.

VI.—Punjab.

Kilba.—No falls occurred in August. There were six days of snow at high elevations in September. The accumulations at the end of each month are shown in the following table :—

Locality.	Accumulations at the end of	
	August.	September.
	Ft.	Ft.
Kailash Peak	15	13
Rupan Pass	8	4
Brua Pass	6	6
Shatul Pass	7	½

VII.—United Provinces.

Almorah.—The actual amounts of snow are given in the following table :—

Locality.	August.	September.
	Ft.	
Malla Danpur	½	..
Malla Johar	2¾	..
Malla Darma	4½	4½
Biyans	2½	2½

The falls were below normal in Biyans and Malla Danpur and above it in Malla Johar and Malla Darma. The depths of accumulations are in the following table :—

Locality.	Accumulations at the end of	
	August.	September.
	Ft.	Ft.
Nuwe Pass	3	5
Lampia Pass	6	13½
Lepu Pass	4	9
Milan Pass	1	..

The retreating monsoon period, October to December.

I.—Persia.

No reports were received.

II.—Afghanistan.

Kabul.—On October 12th there was a slight snowfall on the Paghman hills. The first heavy precipitation on the Paghman range and on the Hindu Kush was on November 19th, and there were further falls till the 3rd December. The snowfall for this period was reported to be normal.

III.—Baluchistan.

Quetta.—There were light falls on the surrounding hills on the 3rd and 20th December. The snowfall for the period was about normal.

IV.—North-West Frontier Province.

(*a*) *Hazara.*—Snow fell on seven days in December. The accumulations at the end of the period were below normal.

(*b*) *Dir, Swat, and Chitral.*—A few falls of snow occurred in October while there were five days of snow in November and three days in December. The falls were reported to be above the average.

(*c*) *Khyber Agency.*—Snow fell on the peaks of the Safed Koh on three days in November and on one day in December. The accumulations at the end of December were above normal.

(*d*) *Kohat.*—There was no snowfall during the period.

(*e*) *South Waziristan.*—There were two light falls of snow on the ranges of 7,000 ft. and over, in the first week of December.

V.—Kashmir.

(*a*) *Skardu.*—Snowfall was observed on surrounding mountains generally above 9,000 ft. on four days in October, five days in November and two days in December. The last fall on 23rd December came down to station level. The falls were above normal in October and November and below it in December. The accumulations at the end of the period on the surrounding mountains were about 1½ ft. deep.

(*b*) *Dras.*—There were five days of snowfall in October, seven in November and three in December. The amounts were above normal in October and November, and below it in December. There was about one foot of snow at Dras at the end of the period. On the Zojila and Mushko Passes snow accumulations amounted to 3½ ft. at the end of October, 5 ft. at the end of November and 4 ft. at the end of December.

(*c*) *Srinagar.*—Two falls were reported in October and several in November and December. The falls were normal during October and November but were in defect during December.

(*d*) *Kargil.*—During October six falls of snow were observed on the adjoining mountains. Three falls occurred in November and two in December, the snow-line descending to Kargil ground level each time. The depths of accumulations at the end of the period were about 8 inches on the higher peaks and passes. The falls and accumulations were below normal.

(*e*) *Sonamarg.*—Light falls were reported in October.

(*f*) *Leh.*—Occasional light falls were reported but the lower passes were all open at the end of December.

VI.—Punjab.

(*a*) *Kulu* (*Kangra District*).—There were two slight falls in Kulu and Saraj, one in November and the other in December. The falls amounted to about a foot on the majority of passes.

(*b*) *Kilba* (*Simla District*).—There were two falls of snow in October on elevations above 7,500 ft. Snow fell at Purbani and Sanglah on the 27th November while in December there was no snowfall below 15,000 ft. The following table gives the depths of accumulations on well-known passes and peaks at the end of each month :—

Locality.	Depths of accumulations at the end of		
	October.	November.	December.
	Ft.	Ft.	Ft.
Kailash Peak	14	16	17
Rupan Pass	5	7	8
Brua Pass	7	8	10
Shatul Pass	6	8	10

VII.—United Provinces.

(*a*) *Almorah.*—The total falls for each of the months are indicated in the following table :—

Locality.	October.	November.	December.
	Ft.	Ft.	Ft.
Malla Darma	9	1½	4
Malla Danpur	1¼	1	1
Biyans	18	..	3
Malla Johar	..	..	3

Snowfall throughout the period was above normal. The following table gives the accumulations at the end of each month during the period :—

Locality.	October.	November.	December.
	Ft.	Ft.	Ft.
Nuwe	13	11	13
Lampia	15	..	21
Lepu	10	..	14
Nandakote	15	..	..
Trisul	15	..	..
Kafini	..	2	5
Kantila	..	2½	5
Milan	..	..	2½

(*b*) *Garhwal.*—There were three days of snowfall amounting to one foot in October. In December snow fell on two days to a total depth of about two feet.

VIII.—Assam.

(*a*) *Kamrup.*—The falls and accumulations were nearly normal.

(*b*) *Sadiya Frontier Tract.*—The falls were normal except on the North East watershed of the Dibang where there was very heavy snowfall.

(*c*) *Baliapara Frontier Tract.*—There has been little or no snowfall on the Se La range. The accumulations at the end of the period were about 2 to 3 ft.

Summary.

Cold weather period, January and February.—Falls and accumulations were above normal except in Kashmir and Baluchistan where they were about normal.

Hot weather period, March to May.—Baluchistan experienced no falls and Assam normal falls. Elsewhere snowfall was above normal.

Snow accumulations at the end of the period were above normal in the Kumaon Hills and throughout the western Himalayas and normal in Assam.

The south-west monsoon period, June and July.—Both the falls and the accumulations were normal in Kashmir and the North-West Frontier Province. In the Punjab and the United Provinces snowfall was normal while the accumulations were above normal.

The south-west monsoon period, August and September.—Falls and accumulations were below normal in the United Provinces and the Punjab, and normal in Kashmir.

The retreating monsoon period, October to December.—Snowfall was in large defect in Kashmir during December. The accumulations at the end of the period were normal in the North-West Frontier Province and the Punjab and in excess in the United Provinces.

S. R. SAVUR,
Meteorologist,
Poona.

MGIPC—M—VIII-3-32—25-8-34—290.

NO.--WR33/C.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1933

ANNUAL SUMMARY

PART C

STORMS AND DEPRESSIONS

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Published by the Authority of the Government of India

UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.,

Director General of Observatories

DELHI: MANAGER OF PUBLICATIONS
1935

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ANNUAL SUMMARY 1933.

PART C.

STORMS AND DEPRESSIONS.

DEPRESSIONS AND CYCLONIC STORMS.

During the year 7 storms and 8 depressions formed in the Bay of Bengal, 1 storm and 4 depressions in the Arabian Sea and one depression over Bihar. The dates on which the storms occurred and the greatest barometric depths observed are summarised in the Table below :—

TABLE.

Locality.	Month.	Date.	Greatest observed barometric depth.
Arabian Sea . . .	May .	13—19	1·20″
Bay of Bengal . . .	May .	22—26	0·35″
Bay of Bengal . . .	June .	14—16	0·25″
Bay of Bengal . . .	August .	2—4	0·35″
Bay of Bengal . . .	September	17—21	0·35″
Bay of Bengal . . .	October .	13—22	0·40″
Bay of Bengal . . .	November.	14—19	0·90″
Bay of Bengal . . .	December	12—17	1·00″

The detailed descriptions of these storms and depressions are, as usual, followed by a list of western disturbances of the year, of the more important local storms, and of the localities in which winds of force 9 or more were experienced by ships in the Indian Seas.

1. *Western Depression, 21st—23rd February 1933.*—A western disturbance which lay as a deep depression over the Persian Gulf on the 21st morning caused moderate to strong winds and rough seas accompanied with rain on the Mekran coast on that day and lay over the north Arabian Sea to the south of the Mekran coast on the next morning; Pasni had an easterly gale accompanied with thunderstorm and rain at 8 hrs. on the 22nd. E'ly to NE'ly winds of force 7 to 8 and rough seas continued on the coast during the day; *S. S. Varsova* bound for Karachi from the Persian Gulf also reported strong easterly wind with rainsqualls and very rough sea at 18·30 hrs. near Lat. 24½°N., Long. 63½°E. With the depression moving away eastward the weather moderated on the Mekran coast. The depression lay over Gujarat on the 23rd morning and moved eastwards across the country thereafter.

2. *Low pressure area off Malabar-Kanara, 9th—11th April 1933.*—Signs of accentuation of the seasonal low in the south of the Bay of Bengal were noticeable after the 1st April and Ceylon had fairly widespread rain on the 4th and 5th. Pressure fell appreciably in the Madras Presidency between the 6th and 7th and in Mysore, Malabar, Kanara and south-east Arabian Sea between the 7th and 8th. Upper winds upto 1 Km. over Colombo which were westerly (force 4) on the 7th morning backed to between southwest and south (force 3 to 5) by the 8th morning. On the 9th morning a low pressure area appeared off north Kanara in the neighbourhood of Laccadives and upper winds upto 2 Km. over the Peninsula were blowing from between east and southeast (force 3 to 7). With this the rainfall extended into the west of the Peninsula on the 9th. Between the 9th and 10th pressure rose appreciably over the Peninsula but fell somewhat in the southeast Arabian Sea in the neighbourhood of Minicoy and the low pressure area was located to the west of Laccadives on the 10th. The low pressure area persisted there, till the next day, when it became unimportant. Widespread thunderstorm rain also occurred in Malabar, Kanara and Mysore on the 10th and 11th.

3. *Unsettled Conditions, 22nd—26th April 1933.*—On the morning of the 22nd April a trough of low pressure appeared in the south Bay of Bengal. During the course of the next 24 hours it gradually extended from the south to central Bay without showing any signs of intensification. On the afternoon of the 24th, the trough of low pressure was concentrating between Diamond Island and the Andamans as shown by the following :—

(*a*) The marked and concentrated pressure fall on the afternoon of the 24th over the region between Port Blair and Diamond Island.

(*b*) The 18·30 hours observations from *S. S. Jalaveera* (11·8° Lat., 90·1° Long.) which reported north-westerly wind force 3.

(*c*) On the morning of the 25th widespread rainfall occurring at stations along the Tenasserim coast and over the Irrawady and Pegu divisions, Diamond Island reporting 3″ and Amherst 4″.

By the next morning the conditions became markedly unsettled from the Andaman Sea to the east Central Bay and pressure was falling rapidly in the north Andaman Sea. From the morning upper winds it appeared that a cyclonic circulation had established itself upto about 2 Km. height. On the afternoon of the 25th conditions appeared favourable for the formation of a depression with central region near Lat. 13°N., Long. 95°E. Thereafter however the unsettled conditions were less marked and became unimportant by the afternoon of the 26th.

The eastward movement of these unsettled conditions towards Burma caused widespread rain in Tenasserim and

in the Pegu and Irrawady divisions between the 24th and 26th.

This is an interesting example of unsettled conditions during which, in spite of a report of northwesterly wind of force 8 and concentrated pressure fall from the affected region, a depression failed to develop.

4. *Low pressure area off Malabar, 3rd—6th May 1933.*—A fall in pressure occurred to the west of Ceylon between the 30th April and 1st May. Pressure fell further in the west of the Peninsula and the east Arabian Sea between the 1st and 2nd. Upper winds upto 1 Km. at Colombo and Trivandrum which were light southwesterly and moderate northwesterly on the 1st morning backed to south and southeast respectively and were of force 2-4 on the 2nd morning; this change indicated an incursion of humid winds over the south of the Peninsula and the southeast Arabian Sea. By the 3rd morning a shallow low pressure area appeared in the southeast Arabian Sea between Malabar and Laccadives; the upper winds at Colombo had backed further to southeast; also the upper winds upto 2 Kms. at Mangalore, which were blowing from between northwest and northeast on the 2nd morning, had backed and were from between southeast and southwest on the 3rd morning. Widespread rain occurred in Malabar, and both Amini Divi and Minicoy had also rain on the 3rd. By the 4th morning the surface wind at Minicoy which was northnortheasterly (force 1) on the 3rd morning had become southwesterly (force 4), the pressure in the Laccadives had risen and the upper winds along the Malabar coast had weakened and were getting out of the influence of the low pressure; these changes indicated a somewhat westerly movement and also probably filling up of the low pressure area. Ships' observations as well as observations from Minicoy in the course of the next two days indicated that the low pressure area moved further westwards and became unimportant by the 7th morning.

5. *Severe Storm of 13th to 19th May 1933.*—Signs of arrival of southeasterly to southerly air in the southwest of the Bay of Bengal between 0·5 and 1·5 Km. were noticeable after the 6th May. Colombo had 5″ of rain on the 8th and on the 9th morning light southeasterly winds were reported by ships from the southwest of the Bay. On the 9th a concentrated fall in pressure occurred in the Laccadives and the adjoining parts of the southeast Arabian Sea and rainfall extended into Malabar and further westwards into Minicoy which also had 4″ of rain on that day. A low pressure area appeared in the southeast Arabian Sea on the 10th morning; it moved slightly northwards, pressure falling further along and off Kanara and the Konkan. By the 11th morning the upper winds upto about 1 Km. at Colombo and 2 Km. at Trivandrum were under the influence of the low pressure area in the southeast Arabian Sea, those at Trivandrum being easterly to southeasterly.

The observations from Amini Divi and Minicoy as well as from ships on the 12th morning indicated that the low pressure area was then concentrating into a depression. The upper winds at Trivandrum had veered to south and also strengthened (force 3-5); this change together with the change in upper winds at other stations in the Peninsula indicated that the disturbance was moving northwards. By the 13th morning the wind at Minicoy which was southeasterly and light on the previous morning had veered to a southwesterly wind of force 6 from a light southeasterly breeze on the previous morning, and a depression had formed by this time with central region in the neighbourhood of Lat. 9°N., Long. 70°E.; Amini Divi had 3″ of rain on the 12th. The changes in the upper winds over the Peninsula between the 12th and 13th however did not indicate a further intensification of the depression.

Observations from Minicoy on the 14th morning indicated that the depression had either weakened somewhat or moved to the northwest of Minicoy. The upper winds upto 2 Kms. in the Peninsula were not under the influence of the depression on the 14th morning although they continued to do so at higher levels. However, in the course of that day the upper winds over the Peninsula in the lower levels were again gripped by the depression and strengthened somewhat. Also a rain belt, indicating the existence of a front and extending from the north Konkan to Berar, had appeared on the 15th morning, and widespread rain had fallen over that region in the previous 12 hours. A somewhat similar type of front is often very well marked in storms during the post-monsoon period when the continental air mass is colder than the air mass from the Indian seas. It is difficult to locate the centre on the 15th with any degree of accuracy in the absence of observations from near the central region. The upper winds in the Peninsula on the 15th morning however indicated a northward movement of the depression and by 8 hrs. of the 16th the depression had probably already developed into a storm which was then centred near Lat. 16°N., Long. 69°E. *S. S. City of Swansea* bound for Bombay from Aden experienced near Lat. 17½°N., Long. 66½°E. northnortheasterly wind of force 4 to 5 at 4 hrs. on the 16th morning; thereafter as she moved eastwards she experienced stronger winds, the force having risen to 7 by 8 hrs. An extract from her log is given below.

Log of S. S. City of Swansea for 16th and 17th.

Date.	Hour.	Position.		Pressure.	Wind.		Sea.	Swell.	Weather Remarks.
		Lat. N.	Long. E.		Dir.	Force.			
		° ′	° ′						
16th . .	4	..	..	29·69	NNE	4-5	Moderate, NNE .	Heavy, SE . .	Sky partly cloudy.
	8	17 33	67 02	29·71	NNE	6-7	High, NNE . .	Heavy, NNE .	Overcast and rain.
	12	17 43	67 40	29·65	NE/E	7-8	High, confused .	Heavy, confused .	Overcast and rain.

Log of S. S. City of Swansea for 16th and 17th—contd.

Date.	Hour.	Position.		Pressure.	Wind.		Sea.	Swell.	Weather Remarks.
		Lat. N.	Long. E.		Dir.	Force.			
		° ′	° ′						
16th . .	14	..	..	29·57	NNE	..	..	..	....
	16	..	..	29·49	NNE	9	Very High, NNE .	Heavy, NNE .	Frequent violent rain squalls.
	18	..	..	29·49	NE	..	..	..	....
	20	..	..	29·51	ENE	8-10	High, ENE . .	Heavy, ENE .	Continued heavy rain.
	21	..	..	29·53	NE/N	9	..	..	....
	22	..	..	29·53	NE/N	8-9	..	..	....
	23	..	..	29·55	NE	8	..	..	....
	24	..	..	29·57	NE	8	High, NE . .	Heavy NE . .	Heavy lightning and rain.
17th . .	1	..	..	29·56	N	..	..	..	....
	2	..	..	29·51	N/E	..	..	..	....
	3	..	..	29·49	N	..	..	..	....
	4	..	..	29·51	NNW	7-8	High, NNW. .	Heavy, NNW .	Occaisonal heavy squalls.
	6	..	..	29·57	..	..	..	..	....
	8	18 19	68 53	29·61	NNW	6	High, NNW. .	Heavy, NNW .	Overcast and squalls.
	12	18 26	69 08	29·63	WNW	5	High, WNW .	Heavy, WNW .	Overcast and squalls.
	16	..	..	29·57	W	4	Rough, W . .	Moderate, W .	Showery.

From the log of *S. S. City of Swansea* it will appear that the storm had winds of force 8 to 10 to the north of its centre; as is also generally found to be the case in the storms of the post-monsoon period, the strong winds being generally to the south of the centre in the case of pre-monsoon storms. The storm seems to have intensified during the 16th and was probably of severe intensity by that evening. *S. S. Bhutan* bound for Aden from Bombay, an extract from whose log is given below, also experienced the full force of the storm on the 16th-17th night. She recorded the lowest pressure reading of 28·64″ at 11-30 P.M. on the 16th, the pressure having fallen by 1·20″ since 8 hrs. in the morning when she had left Bombay; it appears that the cyclone had a belt of hurricanes but it is not known if it had a calm centre. The *S. S. Bhutan* probably passed to the south of the centre of the cyclone, and the pressure deficiency at the centre may have been more than 1·20″.

Log of S. S. Bhutan for 16th and 17th.

Date.	Hour.	Position.		Pressure.	Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.		Dir.	Force.			
		° ′	° ′						
16th . .	8	..	..	29·84	WSW	2	Calm . . .	No swell . .	Sky partly cloudy.
	12	18 37	71 48	29·76	WSW	2	Calm . . .	Moderate, WSW .	Light rain.
	16	..	..	29·64	NE	4-5	Moderate, SW .	Moderate, SW .	Continuous rain.
	18	..	..	..	E	..	..	..	....
	19	..	..	29·57	SE	..	..	..	....
	20	..	..	29·59	S	7	High, confused .	Heavy, confused .	Frequent heavy rain squalls.

Log of S. S. Bhutan for 16th and 17th—contd.

Date.	Hour.	Position.		Pressure.	Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.		Dir.	Force.			
16th—*contd.*	22	..	..	29·55	ESE	8	..	..	....
	23·30	..	..	28·64	..	..	..	..	....
	23·40	..	..	28·70	..	..	..	..	....
	24	..	..	29·16	Confused	12	Confused . .	Confused . .	Overcast sky, squalls.
17th . .	1	..	..	..	Var.	12	..	..	....
	2	..	..	29·46	WSW	10	High, WSW. .	Heavy, WSW .	....
	3	..	..	29·48	W	8	..	..	....
	4	..	..	29·52	W	7	High, W . .	Heavy, W . .	....
	5	..	..	29·55	..	..	..	..	....
	6	..	..	29·55	NW	6	..	..	....
	7	..	..	29·61	..	..	..	..	....
	8	17 39	67 34	29·64	N	6	Rough, N . .	Moderate, N .	....
	10	..	..	29·61	..	..	..	..	....
	11	..	..	29·67	..	..	..	..	....
	12	17 27	66 43	29·70	N/W	5-6	Confused, N. .	Confused, N. .	Sky partly cloudy, occasional rain.

The cyclone moved in a northnortheasterly direction after the 16th morning and was centred near Lat. 19°N., Long. 69°E. at 8 hrs. on the 17th. A narrow belt of rain extended from the Gujarat coast to Patna in Bihar on the 17th morning. Upper winds at Bombay upto 1·5 Km. (the balloon having been lost in clouds at that height) which were from south-southeast and of force 6-8 in the morning veered thereafter and were blowing from south in the afternoon, indicating northeastward movement of the cyclone; at Ahmedabad, in the afternoon, the upper winds were from northeast and of force 8-10 upto 1·5 Km. (the limit of the flight). While approaching the Kathiawar coast on the 17th afternoon the cyclone weakened into a depression as indicated by the observations of *H. M. S. Enterprise* and of *S. S. Garmula.* A summary of the observations of these two ships is given below :—

H. M. S. Enterprise.

Date.	Time I. S. T.	Position.				Wind.		Swell.	Weather Remarks.
		Lat. N.		Long. E.		Dir.	Force.		
		°	′	°	′				
17th May 1933 .	08·30	21	54	68	48	NE/E	5	Moderate, SE .	Cloudy.
	15·30	20	50	70	10	NE/E	10	Moderate, NE .	Rain in last hour.
	19·30	20	21	70	48	SSE	8	Moderate, SE .	Precipitation within sight.
	22·30	20	01	71	13	S	7	Moderate, SE .	Partly cloudy.
18th May 1933 .	01·30	19	36	71	43	SSW	7	Moderate, S .	Partly cloudy.
	04·30	19	12	72	10	SW/W	4	..	Partly cloudy.

S.S. Garmula.

Date.	Time I. S. T.	Position. Lat. N.	Position. Long. E.	Pressure.	Wind. Dir.	Wind. Force.	Sea.	Swell.	Weather Remarks.
		° ′	° ′						
17th May 1933 .	06·30	20 0	71 12	29·56	ENE	7	Rough . .	Moderate, E .	Intermittent moderate rain.
	12·30	20 30	70 36	29·56	NE	6	Rough . .	Moderate, E .	Intermittent moderate rain.
	16·30	20 24	70 06	29·36	NE	7	High . .	Moderate, SE .	Rain accompanying with squalls.
	19·30	20 24	70 30	29·34	SSE	7	Rough . .	Moderate, SE .	Overcast.
	22·00	20 24	70 42	29·39	S	6	Rough . .	Moderate, SE .	Ugly threatening sky.
18th May 1933 .	03·30	20 18	71 42	29·48	SW	4	Rough . .	Moderate, SE .	Overcast.

The centre of the depression was near Lat. 20°N., Long. 70°E. at 21 hrs. on the 17th and both these vessels were near the centre between 19 hrs. and 22 hrs. The depression weakened further while approaching the Kathiawar coast and passed inland slightly to the west of Veraval between 2 and 3 hrs. on the 18th. From the barometer readings at Veraval it appears that the pressure deficiency at the centre of the depression at the time of its passage inland may not have been more than 0·30". The depression continued to move slowly northeastwards through Kathiawar and filled up to the east of Cutch on the 19th.

It is reported that the rain which occurred in Gujarat in connection with this storm did damage to property there.

6. *Storm of 22nd—26th May 1933.*—On the morning of the 20th May the ships' observations showed that the southwest monsoon was strengthening in the neighbourhood of Ceylon and was being directed towards the Tenasserim coast. One inch of rain had already fallen at Port Blair and light but widespread showers were reported from Tenasserim. Pressure was markedly in defect at Port Blair. By the next morning signs of a feeble cyclonic circulation setting in to the west of the Andamans were noticeable. In this connection the following ships' observations are interesting.

Date.	Steamer.	Hour.	Position. Lat. N.	Position. Long. E.	Wind. Dir.	Wind. Force.	Remarks.
			° ′	° ′			
21st May 1933 .	"Ethiopia"	06·30	14 3	86 7	NNW	1	Smooth sea.
	"Nurjehan" . . .	06·30	12 0	89 4	SW	2	Slight sea.
	"Erinpura"	08·00	14 8	90 8	ESE	2	Slight sea.
	"Masimpur" . . .	08·00	14 7	91 1	SE	2	Smooth sea.

Widespread thunderstorms were reported from south Burma and Tenasserim. The pressure departure in the Bay was above normal to the north of Lat. 18°N. and below normal to the south of it.

By the morning of the 22nd a depression formed in the Bay with centre within a degree of Lat. 12°N., Long. 88°E. The depression intensified during the course of that day without showing any signs of appreciable movement. By early morning of the 23rd, it began to move in a northeasterly direction and, at 8 hours, was centred near Lat. 14°N., Long. 90°E. By the afternoon it had concentrated into a cyclonic storm which continued to move in a northeasterly direction. Diamond Island surface wind, which was ESE'ly 6 at 8 hrs. of the 23rd became SE'ly 8 at 11 hrs. and further strengthened to force 12 at 23 hrs. (of the 23rd). These changes suggested that the storm, while moving in a northeasterly direction, was further intensifying.

The following reports from Port Officer, Rangoon and Wireless Officer, Diamond Island are very interesting :—

The Port Officer, Rangoon remarked—

"*23rd May 1933.*—Overcast, light rain, squally, general direction ESE, SE ; strongest gust 41 m.p.h. at 7-52 A.M. from southeast.

24th May 1933.—Overcast, heavy rain, squally, general direction SE, SSE strongest gust 51 m.p.h. at 9-6 A.M. from south.

25th May 1933.—Overcast, rainy, squally, direction ESE, SE, SSE. Strongest gust 56 m.p.h. at 11-40 A.M. from south."

The Officer-in-charge, Radio Office, Diamond Island, remarked—

"On the 23rd from 21 to 0 hrs. sky mainly overcast. Moderate gale with intermittent vigorous squalls and light-

drizzle. Direction southeastward. Sea moderate to rough. Swell of moderate height and of average length.

On the 24th at 0 hr. severe thunderstorm with heavy rain accompanied by vigorous squalls and hurricane force of breeze (66 miles per hour). Sky overcast. Sea very rough. Swell heavy and of average length.

From 0 to 3 hours thunderstorm continues with heavy rain. Intermittent vigorous squalls. Fresh gale direction southeastward, sea very rough, swell heavy and of average length.

From 3 to 6 hours thunderstorm continued. Breeze dropped in strength to strong intermittent light squalls with rain. Sea rough. Swell heavy and of average length from southeast.

From 6 to 8 hours thunderstorm at time of observation. Sky overcast with nimbus clouds. Breeze dropped in strength to moderate. Direction inclined to vary from south to southsouthwest. Intermittent heavy rain, sea rough. Swell still heavy and of average length.

From 8 to 12 hours sky overcast. Breeze increasing from moderate to moderate gale. Direction southward. No squalls. Intermittent moderate rain. Sea rough. Swell still heavy and of average length.

From 12 to 15 hours sky overcast. Moderate gale continues. Direction southeastward. Intermittent light to heavy rain. No squalls. Sea rough. Swell heavy and of average length. Direction southeast.

From 15 to 18 hours sky overcast. Moderate gale continues with occasional vigorous squalls accompanied with slight drizzle. Direction southeast. Sea rough, swell heavy with average length. From 18 to 20 hours variable sky. Breeze decreased to strong breeze. Direction southsoutheast. No squalls, or rain. Sea rough, swell heavy and of average length. From 20 to 0 hours sky mainly overcast. Breeze fresh gale with frequent vigorous squalls accompanied with rain. Direction southwards. Sea very rough. Swell heavy and of average length."

At 17 hrs. of the 23rd the storm was centred within a degree of Lat. 15°N., Long. 91°E. Thereafter the storm took apparently a more northerly course and on the morning of the 24th it was centred within a degree of Lat. 16°N., Long. 91°E. The monsoon was strong to the south and east of the storm centre and nearly general rain fell in the Irrawady and Pegu divisions and Upper Burma. At this stage pressure departure near the centre of the storm was at least of the order of —0·3″ and the cyclonic circulation over the Bay had extended upto at least 3 km. height. The three ships *S. S. Kutsang*, *S. S. Arankola* and *S. S. Warina* were at different stages close to the centre of the storm. Portions of their logs for the disturbed period are given below. These indicate that probably at no time winds of gale or storm force were experienced in the immediate vicinity of the centre of the storm.

"*Kutsang.*"

Date.	Hour.	Position.		Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.	Dir.	Force.			
		° ′	° ′					
23rd May 1933 . .	08·00	11 5	95 4	SW/S	5	Very rough .	..	....
	09·30	12 0	95 2	SW	4	Moderate .	Moderate, SW .	Moderate T. S. with rain.
	14·30	12 7	94 6	SW	6	Very rough .	Heavy, SW . .	Squalls (showers, squalls).
24th May 1933 . .	00·30	14 2	93 5	SSW	6	Rough .	Moderate, SW .	Intermittent slight rain (showers, squalls).
	08·00	15 4	92 3	SW/S	5	Rough .	Moderate, SW .	Rain.
	09·30	15 5	92 3	SSW	5	Moderate .	Moderate, SW .	Rain (showers, squalls).
	14·30	16 5	91 8	S	3	Moderate .	Moderate, S . .	....
	22·00	17 4	91 0	S	3	Moderate .	Moderate, S . .	(Showers.)
25th May 1933 . .	00·30	17 8	90 7	W	1	Slight . .	Low, SW.	....
	08·00	18 7	89 1	N	4	Moderate .	Moderate, N.	....
	09·30	19 0	89 7	NE	5	Moderate .	Low, S.	....
	12·30	19 6	89 5	NNE	5	Rough .	Confused, N.	....
	14·30	19 5	89 . 2	N	5	Rough .	Confused, N . .	(Rain shower.)
	15·30	19 8	89 0	NNE	5	Rough .	Confused, N . .	(Showers.)
	17·30	20 0	89 7	NNE	3	Moderate .	Moderate, S. . .	....

"*Arankola*".

Date.	Hour.	Position.		Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.	Dir.	Force.			
		° ′	° ′					
23rd May 1933 . .	00-30	20 6	88 7	SE	3	Slight . .	Low, SE.	....
24th May 1933 . .	06-30	19 8	88 5	ESE	5	Moderate .	Moderate, SE .	Shower of slight or moderate rain.
	09-30	19 3	90 0	ESE	4	Moderate .	Moderate, SE.	....
	15-30	18 5	91 9	ESE	5	Moderate .	Heavy, SE . .	(Showers.)
	17-30	18 2	91 2	ESE	3	Moderate .	Heavy, SE . .	Moderate rain (showers).
	21-30	17 7	91 7	S	3	Moderate .	Heavy, SE . .	Showers with squalls (showers).
25th May 1933 . .	06-30	16 5	93 0	SSW	6	Rough .	Heavy, S . .	Heavy T. S. with rain (rain, squalls).
	09-30	16 2	93 4	SSW	6	Rough .	Heavy, S . .	Rain with squalls (rain, squalls).
	15-30	15 6	94 4	SSW	6	Rough .	Heavy, S . .	(Rain).

"*Warina.*"

23rd May 1933 . .	15-30	15 7	93 7	SSE	4	Moderate .	Moderate, SE .	(Showers.)
	17-30	16 1	93 8	SE	5	Moderate .	Moderate, SE .	(Showers.)
24th May 1933 . .	09-30	16 8	92 8	ENE	3	Moderate .	Moderate, SE .	Overcast with KN (showers).
	14-00	17 6	91 9	SE	4	Moderate .	Moderate SE .	Rain.
	17-30	17 8	91 9	SSE	5	Moderate .	Moderate, E	....
25th May 1933 . .	09-30	19 2	90 2	NE/N	4	Slight . .	Moderate.	....
	13-00	19 7	89 6	NNE	6	Rough .	Moderate, SE .	(Showers.)
	17-30	20 2	89 2	NNE	3	Slight . .	Moderate, NE.	....

During the 24th the storm continued to move in a northerly direction and was centred within a degree of Lat. 17°N., Long. 91°E. at 17 hrs. The 23 hours observations from the following ships very close to the centre of the storm were available. They showed that winds of force 2 to 4 only were experienced near the centre.

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
			° ′	° ′			
25th . . .	"Kutsang" . .	00-30	17 8	90 7	W	1	Sea slight, low swell SW.
24th . . .	"Kutsang" . .	22-00	17 4	91 0	SSW	4	Sea moderate, moderate swell (S), showers.
	"Arankola" . .	21-30	17 7	91 7	S	3	Moderate sea with heavy swell (SE), squalls, shower.

The storm was centred next morning (25th) within a degree of Lat. 18°N., Long. 91°E. and kept on moving northwards till about 14 hours. It then recurved northeastwards and was located about 150 miles southwest of Akyab at 17 hours. As it gradually approached the Arakan-Chittagong coast, the weather along the coast deteriorated rapidly. The

following extract from the weather diary of Akyab Observer will throw light on the sequence of weather at Akyab.

" *24th May 1933.*—Intermittent drizzles from midnight to 01-00 and thunderstorms till early morning. Afterwards, sky mainly overcast till 13 hours. Drizzles 13-25 to 14-20. Thunder 14-40 to 14-42. Passing showers and drizzles and moderate rain till midnight. Wind direction changing from NE to SE and back to ENE at midnight. Wind speed varied from 10 to 20 miles per hour. Day extremely hot but night cooler.

25th May 1933.—Sky mainly overcast till 5 hours; afterwards rain variable intensity throughout the day. Thunder intermittent from 08-37 to 13-00 hours; thunderstorms intermittent 13-45—14-45, 18-45—19-00, 20-15—20-45. Very heavy rain with loud peals of thunder in the afternoon. Squally weather in the morning. Winds NNE to SSW, force varying between 7 to 36 miles per hour. The maximum speed was about 45 m.p.h. between 23 hours and midnight.

26th May 1933.—Occasional light drizzles with intermittent thunder from midnight till early morning. Continuous rain with thunder at intervals from 0645 to 11-00. Wind speed decreased from early morning."

10″ of rain occurred at Akyab between 8 hours and 17 hours of the 25th. The lowest pressure departure on record during this storm was —·350 reported by Akyab at 2 hours of the 26th when the storm centre was still about 100 miles southwest of Akyab. The storm weakened and crossed coast near Akyab on the 26th morning and rapidly filled up thereafter. It caused locally very heavy rain on the Arakan coast between 8 hours of the 25th and 8 hours of the 26th, Akyab reporting 14″, Kyaukpyu, Haka and Kanpetlet 8″ each.

The rainfall associated with this storm was widespread in Burma and Assam after the 20th, extended into Bengal, Bihar and Orissa by the 22nd and into the east United Provinces on the 23rd. In the wake of the storm the Bay monsoon established itself in Burma where it remained strong during the rest of the month.

The Irrawady and Pegu divisions in Burma had widespread heavy falls between the 23rd and the 25th. The following is an extract from the " Statesman " of the 27th May 1933.

" Rangoon has had nearly ten inches of rain during the past three days. Although there was very little wind when the heavy rain set in, a gale developed this morning during which the sailing ship " *Arya* ", from Bhavnagar State, Kathiawar, charted by Messrs. Maganlal Pranjivan, Diamond Merchants and Rice Merchants of Rangoon, foundered at her moorings.

The B. I. S. S. " *Arankola* ", from Calcutta, lost very little time although she experienced heavy seas. A building was struck by lightning in 37th St. Some damage was done but no one was injured.

The " *Chantala* ", from Arakan ports, is over twelve hours late owing to the weather but is in no danger. She was due here at 7 o'clock this morning.

The Mandalay Mail was 1½ hours late on account of floods. The line is breached between Anlakatpa and Monywa, but this is not on the main line. Delay on the latter is due to precautionary measures. There has so far been no breach."

Some of the noteworthy falls of 5″ and above which occurred in Burma are given in the Table below :—

Stations.	24th.	25th.	26th.
	″	″	″
Kyaikto (Thaton)	..	7	..
Rangoon Town	..	6	..
Victoria Lake (Rangoon)	..	6	..
Hlegu (Insein)	6	..	..
Kyauktan (Hanthawaddy)	..	5	..
Tan-ma-naing (Hanthawaddy)	..	6	.
Sidoktaya (Minbu)	..	5	..
Linzin (Minbu)	..	..	6
Mezali (Minbu)	..	..	6
Pauk (Pakokku)	..	..	5
Saw (Pakokku)	..	7	..
Tilin (Pakokku)	..	6	..
Haka (Chin hills)	..	..	8
Kanpetlet (Chin hills)	..	10	8
Kyaukpyu	..	..	8
Ramree (Kyaukpyu)	..	6	..
An (Kyaukpyu)	..	7	..
Chedula (Kyaukpyu)	..	7	..
Akyab	..	..	14
Myohaung (Akyab)	..	..	11
Pauktaw (Akyab)	..	11	..

7. *Slight Storm of 14th—16th June 1933.*—The following points were noticed on the 8 hours pressure chart of the 10th.

(*a*) The pressure distribution in the north and central Bay above latitude 16°N. was flat.

(*b*) The monsoon was strong to the south of latitude 17°N.

(*c*) Both on the pressure change and departure charts there were indications of the pressure falling from the north Bay to the north Andaman sea.

(*d*) Fairly widespread light to moderate rain had occurred along the whole of the Burma coast and over southwest Bengal and Orissa coast.

The above facts suggested that conditions were slightly unsettled in the north and central Bay. By the afternoon of the same day the rainfall had extended over the eastern districts of deltaic Bengal. During the course of the next 36 hours pressure continued to fall rapidly over the north and central Bay and the area of negative pressure change and departure gradually shifted westwards. By the morning of the 12th, the unsettled conditions intensified into a shallow

depression off the Orissa-Circars coast. Under its influence, the monsoon strengthened in Assam on the 11th and 12th and also extended into Bengal. Widespread thundershowers also occurred in Bihar and Orissa on the 11th and 12th. The shallow depression remained practically stationary during the next 24 hours causing fairly widespread thunder-rain again in Bengal, Bihar and Orissa, the east Central Provinces and the north Madras coast on the 13th. By the morning of the 14th, it had intensified and was centred within a degree of Lat. 18½°N., Long. 86°E. The cyclonic circulation had also extended upto about 2 Km. height in the upper air. The monsoon winds were at this stage vigorous to the south and east of the centre of the disturbance.

The logs of the following ships which were very close to the centre of the disturbance are given below :—

"Khosrou."

Date.	Hour.	Position.		Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.	Dir.	Force.			
		° ′	° ′					
14th/June 1933 . .	00-30	18 2	86 8	SSW	2	Smooth .	Moderate, S . .	Showers.
	06-30	17 4	86 5	SSW	3	Moderate .	Confused, E . .	Rainsqualls.
	08-00	17 6	86 6	SW/S	5-6	Rough .	Moderate, SW .	Squally.
	09-30	17 0	86 5	WSW	5	Rough .	Low, SW . .	Heavy squalls.
	14-30	16 8	86 2	W	6	Rough .	Heavy, SW . .	Continuous rain.
	21-30	16 2	86 0	WSW	6	Rough .	Heavy, SW . .	Squall.
15th June 1933 . .	01-30	15 9	85 8	SW	5	Rough .	Heavy, SW . .	....
	08-00	15 6	85 8	SW	7	Rough .	Heavy, SW . .	Occasional rain.
	09-30	15 2	86 0	W	6	Rough .	Moderate, SW .	Rainsquall.
	12-30	15 2	85 8	WSW	6	Rough .	Heavy, SW . .	Showers.
	15-30	14 8	85 5	WNW	6	Rough .	Heavy, SW . .	(Rainsquall.)

"Jalavijaya."

Date.	Hour.	Position.		Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.	Dir.	Force.			
		° ′	° ′					
14th June 1933 . .	06-30	15 7	85 8	WSW	8	Very Rough .	Heavy, SW . .	Rain (rainsquall).
	08-00	15 8	85 9	WSW	8	High . .	Heavy, WSW .	Rainsquall, continuous rain and squall since midnight.
	14-30	15 3	86 0	W	8	High . .	Heavy, W . .	Rainsquall (rain).
15th June 1933 . .	06-30	14 7	85 8	SW	6	Rough .	Heavy, W . .	(Rainsquall.)
	08-00	14 8	85 7	SW	6	Rough .	Heavy, SW . .	Occasional heavy rain-squalls.

During the course of the day the depression intensified further and by the afternoon it developed into a storm with centre at 17 hours within half a degree of Lat. 19°N., Long. 87°E. It did not show any sign of appreciable movement till early morning of the 15th. Later, moving in a northerly direction, it was centred about 60 miles southeast of Chand-

bali on the morning of the 15th. The following observations from stations in Orissa and ships appear to show that at this time there were no winds of storm or gale force near the centre.

Date.	Steamer or Station.	Hour.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	Force.			
			° ′	° ′					
15th June 1933 .	"Dara" . .	09-30	19 2	87 8	WSW	4	Moderate .	Moderate, SW	(Showers).
	"Maciver" . .	05-30	19 9	88 2	S	4	High .	Moderate, S .	Squally.
	Sandheads . .	08-00	..	..	SE	4	Rough .	Heavy, E .	Drizzle (½″ rain).
	Chandbali . .	08-00	..	..	NE	2	..	..	(T. S. ¼″ rain).
	Puri . . .	08-00	..	..	NE	4	Smooth .	..	Squally (3″ rain).

The pressure departure near the centre of the disturbance on the 15th morning was at least —0·25″. The storm moving very slowly first in a northerly and then in a northnorthwesterly direction crossed the coast near Chandbali by 23 hours and weakened into a depression which was centred early next morning about 50 miles northwest of Chandbali. The depression persisted over Orissa till the 17th and then merged into and accentuated the seasonal trough of low pressure which extended from Baluchistan to the Orissa-Ganjam coast on the 18th morning.

The depression was responsible for an extension of monsoon into Orissa, Chota Nagpur and the east Central Provinces and for its strengthening in Hyderabad. The rainfall associated with it was widespread in northeast India, the east Central Provinces, Hyderabad and on the north Madras coast. It was also responsible for a fairly active monsoon in Lower Burma and on the west coast of the Peninsula.

8. *Account of the movement of a low pressure wave from off the Kanara-Konkan coast to Gujarat between the 18th and 23rd June and of a depression over the west United Provinces between the 24th June and 2nd July.*—A depression which formed in the north of the Bay of Bengal off the Circars-Orissa coast on the 12th stimulated the activity of the Arabian Sea monsoon on the west coast of the Peninsula upto Ratnagiri after that date. The monsoon continued fairly strong there, upto the 18th, when the depression from the Bay filled up over Orissa. Pressure rose generally over the country but fell in the east Arabian Sea on the 18th and a low pressure area appeared off the Kanara-Konkan coast on the 19th morning; Ratnagiri had 6″ of rain on the 18th. The upper winds upto 2 Km. at Bombay which had backed to south between the 18th and 19th also strengthened (force 6-8) by the 19th afternoon. The low pressure area moved slowly northwards into Gujarat by the 23rd morning, and with it the Arabian Sea monsoon also advanced northwards into Gujarat and Rajputana; at the same time the Bay monsoon extended up the Gangetic plain to the east and north Punjab, a temporary extension of the monsoon also occurring in Kashmir and the North-West Frontier Province on the 22nd.

The low pressure area which lay over Gujarat on the 23rd morning moved rapidly northeastwards in the course of that day and a shallow depression lay over the west United Provinces by the next morning; Delhi had 6″ of rain on the 23rd. The depression remained practically stationary but intensified in the course of the next three days, the pressure departure near its centre being about 0·2″ on the 27th morning when the centre lay slightly to the west of Agra. Thereafter it began to move slowly eastwards without any change in intensity and lay near Mainpuri on the 30th morning. In the course of the next two days the depression weakened without any appreciable movement and filled up by the morning of 2nd July.

The depression was responsible for a fairly vigorous monsoon over the whole region from the Konkan to the United Provinces and the east and north Punjab, rainfall being locally heavy in the neighbourhood of the depression. Continuous moderate to heavy rain in the west United Provinces caused floods there, resulting in loss of cattle and much damage to crops and property in several villages.

9. *Unsettled conditions of 27th-30th June.*—A low pressure wave moved towards Burma from the east after the 25th. The monsoon had been strong over the whole of Lower Burma, and light to moderate rain with locally heavy falls was reported from stations along the coast between Akyab and Victoria Point on the 27th morning. The low pressure area moved further westwards, and on the morning of the 28th it existed over east central Bay where it appeared to be concentrating. The pressure continued to fall over the north and central Bay thereafter and by 17 hours conditions became markedly unsettled in north and central Bay, particularly off the Circars-Orissa coast as indicated by the observations from the following ships:—

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force	
			° ″	° ″			
28th June . .	"City of Worcester" .	15-30	17 1	86 8	WSW	6	Sea very rough. Swell 7.
	"Cranfield" . .	15-30	18 5	87 3	WSW	4	Continued slight rain. Sea slight. (Drizzle).
	"Cranfield" . .	17-30	18 8	87 3	WNW	4	Continued heavy rain. Sea moderate. Swell 4 (Rain).

The unsettled conditions persisted north of latitude 18° during the next 36 hours. Between the 29th and 30th pressure fell appreciably in the north Bay between latitude 18° and 20°, longitude 90° and 92°; on the 30th morning cyclonic circulation existed over the north Bay upto a height of about 2 kilometers. These facts suggested that conditions were becoming favourable for the formation of a depression in north-east angle of the Bay.

By the afternoon of the 30th, however, the unsettled conditions passed into Bengal without any further intensification and merged thereafter into the seasonal trough of low pressure over the Gangetic plain.

These unsettled conditions were responsible for locally heavy rain on the Chittagong coast on the 30th June and 1st July and in the northern and eastern districts of Assam on the 2nd and 3rd July. Some of the noteworthy falls of 5″ and above are given below :—

Division.	Station.	2nd.	3rd.	4th.
Bengal . .	Chittagong .	7″	10″	5″
	Narayanganj .	..	5″	..
	Rangpur . .	..	5″	..
	Cooch-Behar .	..	5″	..
Assam . .	Cherrapunji .	11″	14″	..
	Gauhati . .	..	9″	..

10. *Two depressions between 13th and 20th July.*—The monsoon generally strengthened after the 8th and rainfall extended in the interior of the Peninsula, the central parts of the country and north-east India. Conditions became unsettled off the Orissa-Circars coast on the 13th. The unsettled conditions passed inland and a shallow depression appeared over the region extending from the east Central Provinces to off the Orissa-Circars coast on the 14th morning. The depression moved towards Gujarat thereafter, intensifying at the same time and lay over Cutch and lower Sind on the 18th when it filled up. During its passage it gave widespread rain in the central parts of the country, the north of the Peninsula and Gujarat and caused an extension of monsoon into Sind and Baluchistan.

After the passage inland of the unsettled conditions mentioned above, pressure fell appreciably at the head of the Bay on the 14th and conditions again became unsettled there. By the next morning these unsettled conditions moved northwards and intensified in the north-west angle of the Bay. The following observations from some of the land stations indicated that a cyclonic circulation existed over the north-west angle of the Bay :—

Date.	Station.	Hours.	Wind.		Remarks.
			Dir.	Force.	
15th July .	Chandbali .	8	NW	4	Intermittent moderate rain (Thunderstorm).
	Sandheads .	8	S	1	Continuous drizzle (Drizzle).
	Midnapore .	8	ENE	2	(Shower).
	Saugor Island	8	SE	2	
	Balasore .	8	N	3	
	Calcutta .	8	E	2	Intermittent drizzles (Thunderstorm).

With the northward movement of the unsettled conditions the monsoon became strong in the south of latitude 20°. These unsettled conditions passed inland as a low pressure wave and by the morning of the 16th a depression of small extent formed on land with centre at 8 hours about 40 miles north-east of Balasore. The following observations indicate the activity of the depression :—

Date.	Station.	Hour.	Wind.		Remarks.
			Dir.	Force.	
16th July 1933	Saugor Island .	8	S	8	Rain-squall (squally).
	Balasore . .	8	SW	3	Continuous rain (Thunderstorm).
	Calcutta . .	8	ESE	3	Intermittent rain.
	Midnapore .	8	NE	2	Drizzle and rain (Thunderstorm).

It took up a west-north-westerly course, and next morning it lay over Chota Nagpur and adjoining parts of the east Central Provinces. The depression continued to move along the same course until it merged into the seasonal low over north-west India on the 20th. It was responsible for widespread and locally heavy rain especially to the south of its track. The falls were locally very heavy in west Central India and Sind where considerable damage to life and property is reported to have occurred.

The following are some of the noteworthy heavy falls of rain recorded in connection with the above two depressions :—

Station.	13th.	15th.	16th.	17th.	18th.	19th.	20th.	31st.
	″	″	″	″	″	″	″	″
Saugor Island . . .	..	..	6	..	..	..	..	..
Sambalpur . . .	..	..	5	..	..	..	..	..
Dharampur . . .	..	..	..	15	..	..	..	..
Baihar	..	..	..	7	..	..	..	..
Dhuti	..	..	..	7	..	..	..	..
Harda	9	..	..	..	..	..	..	..
Mohpani	..	..	8	..	..	..	..	..
Narsinghgarh . . .	..	..	..	8	..	..	..	..
Sitamau	7	..	..	..	..	..	..	..
Indore	..	..	..	..	..	5	..	..
Ratnagiri . . .	6	..	..	..	..	..	..	..
Bulsar	..	..	..	..	7	..	..	..
Surat	..	..	..	..	5	..	..	..

Station.	13th.	15th.	16th.	17th.	18th.	19th.	20th.	31st.
	"	"	"	"	"	"	"	"
Dehej	..	..	..	..	..	7	..	..
Pinglaj	..	7	..	..	..	..	..	..
Kharagoda	..	..	..	..	..	8	..	..
Mandal	..	..	..	..	..	7	..	..
Veraval	..	7	..	..	..	..	..	..
Dwarka	..	..	11	..	..	..	..	..
Karachi	..	..	..	..	..	..	5	7

11. *Depression of 24th-26th July, 1933.*—With the passage of a low pressure wave from the east across Upper Burma, conditions became unsettled over the Bay off the Chittagong Arakan coast on the 22nd. During the course of the next day these unsettled conditions intensified and gradually concentrated over the north-east Bay. By the morning of the 24th a shallow depression was formed in the north-east angle of the Bay with central region about 120 miles east of the Sandheads. The morning observations from ships in the Bay indicated that monsoon was strong over the Bay to the south of latitude 19° N., and rough seas, strong winds and rain-squalls were reported by most of the ships between latitude 15° and 19°. At 0-30 hours of the 24th *S. S. Agatha* (Lat. 18° 2′, Long. 91° 2′) reported a wind of force 8 and rainsqualls. The morning upper winds indicated that the cyclonic circulation over the north-east angle of the Bay had extended upto at least 2 kilometer height.

During the course of next twenty-four hours pressure continued to fall over north-east Bay and the depression intensified without showing any appreciable movement. By the early morning of the 25th it began to move in a west-north-westerly direction and was centred about 90 miles east-north-east of the Sandheads at 8 hours. During the course of that day it continued to move slowly west-north-westwards without showing any signs of further intensification and was centred next morning about 30 miles to the south of Saugor Island. At 11 hours it was centred about 50 miles to the ESE of Balasore. Continuing to move in the same direction it passed inland near Balasore across the north Orissa coast by the afternoon of the 26th. Next morning it lay as an elongated low over the region from Orissa to west Central India. Thereafter it became diffuse and merged into the seasonal trough of low pressure which extended from the north-west frontier to off the Orissa coast on the morning of the 28th.

The rainfall associated with this depression was widespread over the most of the country excluding north-west India. Widespread and locally heavy rain occurred on the Burma coast between the 22nd and the 28th, while on the 27th morning widespread rain was reported in and around the central parts of the country, rainfall being locally heavy in the west Central Provinces.

12. *Depression of 29th July—1st August, 1933.* On the morning of the 28th July, the seasonal trough of low pressure extended from the north-west frontier to off the Orissa coast, while ships' observations indicated that the monsoon was strong practically over the whole of the Bay. The pressure change and departure charts at 17 hours of the same day suggested that a low pressure wave was travelling westwards across Burma.

On the morning of the 29th, the area of negative pressure change and departure extended from the Andaman sea to the Orissa-Circars coast and a trough of low pressure existed over the central Bay off the Orissa-Circars coast where conditions were becoming unsettled. The monsoon strengthened further to the south of latitude 14°. During the course of that day, the unsettled conditions intensified and, by the afternoon, developed into a depression with central region within a degree of Lat. 18°, Long. 88°, as seen from the following ships' observations.

Date.	Steamer.	Hour.	Position.		Wind.		Sea.	Remarks.
			Lat. N.	Long. E.	Dir.	Force.		
			° ′	° ′				
29th July, 1933	"Howrah"	15-30	17 2	86 5	WSW	7	Rough	Rain-squal.
	"Egra"	15-30	18 4	91 0	SE	4	Slight.	
	"Aronda"	15-30	20 2	89 1	ESE	3	Slight.	
	"Binfield"	15-30	19 6	87 4	ENE	3	Moderate	Rain.
	"Sikh"	15-30	19 0	86 2	NE	3	Moderate.	

The depression intensified further overnight and was centred next morning within a degree of Lat. 17½°, Long. 87°. The morning upper winds from stations round the Bay indicated that the cyclonic circulation over the north and central Bay had extended at least upto 3 kilometer height.

The depression caused vigorous monsoon winds to the south and west of its centre and the extract from the logs of the following ships are interesting from the point of view that winds of forces 8-10 with very high and rough seas were reported.

Date.	Hour.	Position.		Wind.		Sea.	Remarks.
		Lat. N.	Long. E.	Dir.	Force.		
		° ′	° ′				
				"City of Adelaide."			
30th July, 1933	08-00	12 1	84 4	WSW	6	High.	
	16-00	13 2	85 3	W	10	High.	
31st July, 1933	08-00	15 1	87 3	WSW	6	High.	
				"Ethiopia."			
30th July, 1933	05-30	14 6	89 6	WSW	7	Very Rough.	
	08-00	14 5	88 5	SW/W	7	High . . .	Rain-squall.
	09-30	14 4	88 1	WSW	7	Rough.	
	15-30	14 4	87 4	WSW	8	Very high . .	Squally.
	20-00	14 2	87 0	W/S	8	Very high . .	Squally.
31st July, 1933	01-30	14 0	86 6	SW	8	Very high . .	Squally.
	05-30	14 0	86 6	W	8	....	Rain-squall.
	08-00	13 9	85 6	W/S	8	Very high . .	Rain-squall.
	09-30	13 9	85 9	WSW	8	Very high.	
	15-30	13 8	84 9	WSW	8	Very high . .	Squally.
	17-30	13 8	84 8	WSW	8	Very high.	
	20-00	13 6	84 8	SW/W	6	Very high . .	Frequent squall with torrential rain from 14 to 16 hours.
				"Gambada."			
29th July, 1933	06-30	15 5	84 4	W	8	Very high.	
	12-00	15 5	84 3	W	7	High.	
	15-30	15 3	84 0	W	8	Very rough . .	Squally.
30th July, 1933	09-30	14 3	83 2	W	9	Very rough . .	Squally.
	12-00	14 3	82 8	W/N	7	Confused.	
	15-30	14 3	82 7	W	7	....	
	17-30	14 0	82 5	W	7	High.	

The depression began to move slowly in a north-westerly direction and next morning (31st) was centred about 100 miles south-east of Gopalpur. At 8 hours of the 1st, it was located about 40 miles east of Gopalpur. At 11 hours Puri reported a south-easterly wind, force 3, while Gopalpur a north-westerly wind, force 2; at this time the depression was apparently crossing coast between Gopalpur and Puri. Thereafter it rapidly merged into the seasonal trough of low pressure extending from the east United Provinces to off the Circars coast.

The depression was responsible for strong monsoon in the Peninsula and the Central Provinces during most of the week ending 2nd August 1933.

13. *Storm of 2nd-4th August, 1933.*—On the morning of the 1st August, before the depression of the 29th July had passed inland, there appeared a concentrated area of negative pressure change and departure over Burma. This suggested that another low pressure wave was travelling westwards across Burma. Moving rapidly this wave passed out

into the north Bay and by the early morning of the 2nd gave rise to a depression centred within half a degree of Lat. 19° N., Long. 90½°.

Moving in a westerly direction it intensified rapidly and was centred at 11 hours within half a degree of Lat. 19° N., Long. 89° E. as a deep depression. During the course of that day it intensified still further and took a northwesterly course. At 17 hours its centre lay about 100 miles south of the Sandheads, the pressure departure near the centre at this stage being about —0·3″. In the upper air the cyclonic circulation was found to have established itself upto a height of 2 kilometres.

The pressure continued to fall rapidly and at 23 hours the pressure departure of about —·350″ was noticed near the centre which was still about 100 miles south of the Sandheads. Over-night the deep depression intensified into a cyclonic storm which was centred at 8 hours of the 3rd about 75 miles south-east of Balasore.

The storm caused vigorous monsoon winds to the south of Lat. 16° N., as seen from the extract of the logs of the following ships :—

Date.	Steamer.	Hour.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	Force.			
			° ′	° ′					
2nd August	"Ganges"	06-30	19 8	89 0	ENE	5	Moderate	Moderate, SW	Rain shower.
	"Ganges"	09-30	19 4	89 3	ENE	5	Moderate	Moderate, SW	Rain shower.
	"Ganges"	12-30	19 4	89 8	S	3	Moderate	Heavy, S	Shower.
	"Ganges"	15-30	18 7	90 0	SW	6	Very rough	Heavy, SW	Rain.
	"Ganges"	17-30	18 2	90 0	SW	6	Very rough	Heavy, SW	Rain.
3rd August	"Ganges"	06-30	16 6	91 1	SW	8	Very rough	Moderate, SW	Rain.
	"Ganges"	15-30	15 2	92 2	SW	7	Very rough	Heavy, SW	Rain shower.
	"Ganges"	17-30	15 0	92 6	SW	6	Rough	Heavy, SW.	
2nd August	"Cranfield"	09-30	16 3	84 2	WSW	7	Very rough	Heavy, SW.	
	"Cranfield"	12-30	16 4	84 2	WSW	7	Very rough	Heavy, SW.	
	"Cranfield"	17-30	16 2	84 5	W	8	Very rough	Heavy, W.	
3rd August	"Cranfield"	07-30	15 0	83 4	WSW	6	Rough	Moderate, W.	
	"Cranfield"	15-30	14 8	82 5	WSW	6	Rough	Heavy, W.	
	"Cranfield"	17-30	14 8	82 3	WSW	6	Rough	Moderate, W.	
2nd August	"Arankola"	06-30	16 7	92 9	SW	6	Rough	Heavy, W.	
	"Arankola"	12-30	17 7	92 0	WSW	7	High	Heavy, SW	Squally.
	"Arankola"	17-30	18 3	90 8	SW	6	Rough	Heavy, SW	Squally.
	"Arankola"	22-30	19 2	90 0	SW	7	Rough	Heavy, SW	Squally.
3rd August	"Nirpura"	12-00	20 9	88 3	S	6	Rough	Moderate, confused	
	"Nirpura"	15-30	20 6	88 7	SSW	6	Rough	Heavy, S	Rainsquall.
	"Nirpura"	16-00	20 5	88 7	SSW	6	Moderate	Moderate.	
	"Nirpura"	17-30	20 5	88 9	SW	7	Rough	Heavy, S	Rainsquall.
	"Nirpura"	20-00	20 3	89 1	WSW	6	Rough	....	
	"Nirpura"	24-00	19 9	89 5	SSW	7	Very rough	Moderate, S.	

The extracts from logs of *F. L. V. Luna* and *L. V. Star* for the disturbed period are given below :—

"*F. L. V. Luna.*"

Hour.	Wind. Dir.	Wind. Force.	Weather. General.	Weather. Sky.	Remarks.
			3rd August, 1933.		
2	NE	5	q, r	o	Weather unsettled, heavy swell.
4	NE	5	q, r	o	
6	NE	5	q, r	o	
8	NE	5	Fine	c	
10	NE	5	Fine	c	
12	E	5	Fine	c	
14	SE	5	Fine	c	
16	SE	5	Fine	c	
18	S/E	5	Fine	o	
20	S/E	5	q	o	
22	SE	7	q	b, c	Fresh gale, with very heavy swell and rough sea. Vessel rolling heavily.
23	SE	7	q	b, c	
24	SE	8	q	b, c	
			4th August, 1933.		
1	SSE	8	q	b, c	Fresh gale, rough sea, very heavy swell, vessel rolling very heavily. Veered away starboard coir hawser at 01-00 hours ready for vessel swinging head to wind with the turn of the tide.
2	SSE	6	q, r	o	
3	S	7	q, r	o	
4	S/W	6	q, d	o	
5	S/W	5	q, d	o	

"*L. V. Star.*"

Hour.	Wind. Dir.	Wind. Force.	Weather. General.	Weather. Sky.	Remarks.
			3rd August, 1933.		
21	S	4-5	Squally	b, c	
22	SE	5-6	Squally	b, c	
23	SE	5-6	Squally	b, c	
24	SE	5-6	Squally	b, c	
			4th August, 1933.		
1	ESE	6-7	Stormy	b, c	A. M. weather cyclonic and stormy with big swell and sea.
2	ESE	6	Stormy	b, c	
3	S	4	Stormy	b, c	
4	S	4	Stormy	b, c	
5	S	3	Stormy	o, c	
6	S/W	3	Stormy	o, c	Noon weather improving but big swell.
7	S/W	4	Stormy	o, c, d	
8	S/W	4	Stormy	o, c, d	
9	S	4	Stormy	o, c	
10	S/W	4-5	Fine	d, c	

The weather in the northern sector of the storm area was also very bad as shown by the observations of *F. L. V. Luna.*

During the course of the day (3rd August) the storm continued to move slowly in a north-westerly direction. The following table shows that as the storm centre approached the Orissa coast the winds at Puri, Chandbali and Balasore changed direction and strengthened. The storm crossed coast between Chandbali and Balasore by the evening of the 3rd :—

Date.	Station.	Hour.	Wind. Dir.	Wind. Force.	Remarks.
3rd August, 1933	Puri .	17	W	4	Sea slight, swell low (SW), S_{19}. Rain.
	Puri .	19	WSW	7	S_7, Rain shower.
	Puri .	23	SW	9	S_{18}, Rain squall.
	Chandbali	17	NNW	3	K_8, AK_1, Drizzle.
	Chandbali	19	SSW	7	N_{18}, Rain squall.
	Chandbali	23	S	6	K_4, CS_2, Squally.
	Balasore .	17	E	4	N_{16}, Drizzle.
	Balasore .	19	E	3	N_{16}, Rain.
	Balasore .	23	SE	4	N_{15}, Rain.

The storm had passed well inland by 23 hours of the 3rd and was centred about 60 miles to the north-west of Chandbali. At 23 hours practically all the stations between Puri and Calcutta reported thunder-rain and squalls.

Extract from the weather diary of Puri, Chandbali and Balasore meteorological observatories is given below. It throws light on the weather experienced along the Orissa coast between the 2nd and the 4th.

Station.	2nd August.	3rd August.	4th August.
Puri . . .	....	Light to moderate drizzles or rain continued occasionally from midnight till 8 hours. At 8 hours light rain with sky overcast gloomy. Slight continuous rain from 8 hours till midnight and wind changed to SSW from 21 hours when the force gradually increased.	Gale winds from 23 hours till 8 hours and slight continuous rain from midnight till 8 A.M. At 8 hours gale winds. Sky overcast and sandstorm. Gale was blowing throughout *day* till 20 hours with light occasional drizzles from 8 to 12 noon. Sky was nearly overcast.
Chandbali . .	Calm till 1 hour slight drizzling 02-15. Lightning seen 01-00—02-30 slight rain with moderate breeze till 03-30, light breeze till 06-30, gentle breeze *till* 15-30, thunder heard 12-30—15-00. Thunderstorm with heavy rain till 16-45. Slight rain with thunderstorm till 19-00. Moderate breeze till *20-00* hours.	Rain intermittently till 07-00. Heavy rain intermittently till 08-10. Squally slightly 05-30 to 06-00 and intermittently till 17-00. *Heavy squalls with rain 18-00—19-30 and squalls with slight and drizzling rain till night.*	Squalls with drizzling rain till 08-00. Strong breeze intermittently all day till 21-00. Sky variable. Drizzling at 10-30, cloud decreasing till 21-00.
Balasore . .	....	Whole day sky overcast. Drizzling and rain showers since early morning. Wind and rain began to increase and *weather became worse and worse with progress of day. From 8 p.m. to 11-30 p.m. the wind became so high that no one could get out.*	Whole day sky mainly overcast. Slight drizzle from 7-30 A.M. to 8-30 A.M. followed by moderate rain showers up to 9 A.M. The sky gradually cleared after 8 P.M.

By the morning of the 4th the storm had weakened and lay as a deep depression near Sambalpur in Orissa. Moving northwestwards, the depression was centred near Saugor in the west Central Provinces on the 5th, over Jaipur on the 6th, near Bikaner on the 7th and over the southwest Punjab and the adjoining districts of west Rajputana on the 8th. Thereafter it merged into and accentuated the seasonal low pressure area over north Baluchistan.

The disturbance was responsible for widespread rain along and near its track, rainfall being locally heavy in Orissa, the Central Provinces, Gujarat, Central India, Rajputana and on the Western Ghats.

The heavy rain according to newspaper reports caused much damage to crops and property in some of the areas through which it passed. Severe floods occurred in the Cuttack district of Orissa during which loss of life is reported. Some extracts from newspapers in this connection are given below :—

(*a*) *Statesman* of 6th August, 1933—

" RIVERS IN FLOOD.

Many houses collapse at Cuttack.

Cuttack, August 4.

Many thatched houses and brick and mud walls have collapsed as a result of heavy rains in the past 36 hours. The shower is believed to be the heaviest witnessed for a long time. Roads are impassable and tanks and wells are overflowing.

Local rivers, too, are in flood and the current in the Cathjury is so strong that the embankment appears to be in danger."

" RAIL LINE DAMAGED.

Service suspended on B.-N. Railway section.

Titilagarh (B. N. Railway), August 5.

Due to continuously heavy rain the line between Ambododala and Muniguda on the Raipur-Vizianagram line of the Bengal-Nagpur Railway was slightly damaged and through running of trains has been suspended since last night. Transhipment is not possible.

If weather conditions are favourable it is hoped to resume through running during the next 48 hours."

(*b*) *Amrita Bazar Patrika* of 8th August, 1933—

" CUTTACK VILLAGES IN FLOOD.

River Rising.

Woeful tale of homeless hundreds.

Cuttack, August 7.

Flood Rising.

The town of Cuttack having a population of 65,000 is facing a grave danger. During the three days—2nd, 3rd and 4th instants there was thirteen inches of rain. The rivers Mahanadi and Kathjuri are rising rapidly. At 12 A.M. (yesterday) the Kathjuri has risen upto 27-25 feet and messages from Sambalpur say that there is every likelihood of the flood rising still more by one or two feet. The whole town is panic-stricken.

Houses Collapse.

Due to these heavy rains about one-fourth of the whole of the town is still submerged under water ; about 500 houses have collapsed ; nearly 1,000 people are now receiving help.

Floods in the neighbourhood of Cuttack.

About one hundred and fifty villages to the south of the Kathjuri river are now under water. Serious breaches have occurred on the south bank of the Kathjuri and Kaukhais. Hundreds of people are taking shelter on the railway line. Some villages have been completely washed away."

(*c*) *Advance* of 8th August, 1933—

" INCESSANT RAIN.

Many house-collapses at Cuttack.

Cuttack, August 4.

Incessant rain since Wednesday last exacted a heavy toll of house-collapses in Cuttack town and suburbs. The rain has been general all over Orissa. Thousands of men, women and children have become homeless. The sky is heavily clouded. Telegraph lines have been damaged by heavy storm. The Up Puri Express was detained nearly for two hours at Barang Station. A goods train had to stop on the way near Jenapur as it could not run against the hostile wind.

It is reported that this sort of heavy downpour was not experienced during the last decade."

Floods are also reported to have occurred in the Sangli State and the Nasik district on account of heavy rain, the basins of the Krishna and Godavari rivers and loss of life on account of floods is also reported in the Nander district of Hyderabad.

Some of the noteworthy falls of 5" and above recorded at stations during the period are noted below :

Station.	1st.	2nd.	3rd.	4th.	5th.	6th.	7th.	8th.
	"	"	"	"	"	"	"	"
Sandoway	7	14	..	7	..	..	..	..
Gwa	5	..	5	..	..	..	..	..
Veraval	..	11	7	..	..	..	..	..
Chanda	6	..	..	..	..	1.	..	..
Dharampur	..	..	..	9	..	..	..	..
Pachmarhi	6	..	..	..	5	..	..	..
Cuttack	—	..	..	13	..	..	..	—
Raipur	..	..	..	5	..	..	..	..
Mahabaleshwar	..	10	10	12	13	..	..	..
Khandala	..	..	..	..	11	..	..	..
Abu Road	..	..	..	..	..	..	5	..

Station.	1st.	2nd.	3rd.	4th.	5th.	6th.	7th.	8th.
Dwarka	..	..	..	..	..	..	12	.
Ajmer	..	..	..	..	..	..	6	.
Bikaner	..	..	..		..	..	..	5
Neemuch	..	..	..	..	..	5	..	..
Harrai	..	..	..	7	..	..	..	..
Lakhandon	..	..	..	9	..	..	..	..
Bap	..	..	..	..	..	..	11	..
Kishengarh	..	..	..	..	..	..	7	..
Nokh	..	..	..	..	..	..	7	..
Gajner	..	..	..	..	..	10	..	..
Palava	..	..	..	..	..	10	..	..
Kishengan	..	..	..	..	7	..	..	..
Jawad	..	..	..	7	..	..	..	..

14. *Deep depression of 7th-9th August, 1933.*—On the morning of the 6th pressure has fallen markedly over Burma, and nearly general light to moderate rain had occurred over the province with locally heavy falls. Amherst and Diamond Island each had 6″. This suggested that a low pressure wave was travelling rapidly westwards across Burma into the Bay of Bengal. During the course of the day pressure fell further over Burma and next morning a trough of low pressure extended from Diamond Island to Saugor Island. By this time negative pressure changes and departures had concentrated over the east central Bay off the south Arakan coast, where conditions became markedly unsettled and appeared favourable for the formation of a depression. During the previous 24 hours the rainfall had been widespread and locally heavy in Pegu and Tenasserim and along the Arakan coast, Diamond Island reporting 4″ and Sandoway 6″. By the afternoon of the 7th, these unsettled conditions intensified further and a depression had formed with central region within a degree of Lat. 17° N., Long. 92° E. During the course of the night the depression rapidly deepened and moved in a northwesterly direction. Under its influence wind at Diamond Island which was southwesterly, force 4, at 17 hours became westsouthwesterly, force 8, at 19 hours and the rainfall, which was till 17 hours mainly confined to south Arakan coast and Tenasserim coast, extended to the north Arakan and Chittagong coasts during night.

On the morning of the 8th it was centred as a deep depression within half a degree of Lat. 18½ N., Long. 90½° E. The monsoon winds were strong to the south of latitude 18° and during the previous 24 hours widespread and locally heavy rain had fallen in Lower Burma, Amherst reporting 6″; the monsoon was also strong in southwest Bengal, Bihar and Orissa, the north Madras coast and Malabar.

During the course of the day the depression continuing to move in a northwesterly direction intensified still further and was centred at 17 hours within a degree of Lat. 19½° N., Long. 89½° E. At this stage the cyclonic circulation in the upper air had established itself upto at least 3 Km. height. Winds along the Arakan coast had generally strengthened and were squally. The following is an extract from the weather diary of the Meteorological Observer, Akyab :—

" *8th August, 1933.*—From 06-50 wind became squally. It gradually increased in intensity, at about 08-00 hours squalls were vigorous force of occasional gusts was 30 to 40 miles per hour. Direction was generally ESE. It changed to SE by noon and continued as such till 15-20 hours. Wind was then gradually decreasing in strength. After 15-20 hours squalls ceased but continuous southeasterly winds of moderate force (15 to 20 miles per hour) continued from 16-15 hours wind became again vigorously squally direction remaining unchanged. Squalls continued till 18-00 hours after which it was very slightly decreasing in strength. After sunset, intensity of squalls increased again and continued till midnight. Direction of wind which was southeasterly till 20-00 hours changed to SSE by midnight. At about 21-30 hours maximum force of a gust of the squalls rose to about 50 miles per hour and lasted for about 2 minutes. In the day time also, several gusts were of the order of 40-50 miles per hour."

Extracts from the logs of *S. S. Hosang* which moved in the wake of this depression are given below. It will be seen that in the early stages of the formation of this depression *Hosang* reported winds of force 8.

Date.	Steamer.	Hour.	Position. Lat. N.	Position. Long. E.	Wind. Dir.	Wind. Force.	Sea.	Swell.	Remarks.
			′	′					
7th August	" Hosang "	03-30	14 5	93 3	WSW	8	Rough	....	Drizzle.
	" Hosang "	06-30	14 9	93 0	WSW	8	Very rough	Heavy, W.	
	" Hosang "	10-00	15 2	92 7	WSW	8	Very high	Heavy, SW	Rainsquall.
8th August	" Hosang "	03-30	17 0	91 1	WSW	6	Rough	Heavy, W	Rainshower.
	" Hosang "	06-30	17 3	91 0	WSW	6	Rough	Moderate, W	Rain.
	" Hosang "	10-00	17 8	91 0	NW	3	Moderate	Moderate, W	Rain.
	" Hosang "	17-30	18 6	90 1	WSW	5	Moderate	Moderate, W.	
	" Hosang "	21-30	18 3	90 3	SW W	4	Moderate	Moderate, SW.	
9th August	" Hosang "	02-00	20 0	89 0	SSW	3	Moderate	Low, SW.	
	" Hosang "	06-30	20 5	88 7	SSW	3	Slight	Low, SW.	

At 23 hours of the 8th the deep depression was centred about 120 miles southeast of Chandbali. Moving rapidly in a northwesterly direction it crossed the Orissa coast near Chandbali on the morning of the 9th. It took a westnorthwesterly course over land and was centred near Raipur on the 10th morning and over west Central India and Gujarat on the 11th. Thereafter it weakened and merged into the seasonal trough of low pressure over northwest India.

This depression was responsible for widespread rain along and near its track, rainfall being very heavy in Gujarat on the 8th, 9th and 10th. Locally heavy rain also occurred in Lower Burma on the 5th, 6th and 7th and in Orissa on the 8th. Heavy rain in connection with this depression caused, according to newspaper reports, severe floods in the Vishvamitri and Narbada rivers. It is reported that considerable damage was done to crops and property in Broach, Kaira and Ahmedabad districts as a result of these floods. Some of the noteworthy falls of 5″ and above are noted below :—

Station.	6th.	7th.	8th.	9th.	10th.	11th.	12th.
	″	″	″	″	″	″	″
Amherst	6	..	6	..	..	..	..
Diamond Island	6	..	..	..	..	..	..
Sandoway	..	6	..	..	..	..	..
Kanpetlet	..	..	..	6	..	..	..
Puri	..	..	..	6	..	..	..
Chandbali	..	..	..	5	..	..	..
Pachmarhi	..	..	..	..	10	..	..
Cherrapunji	..	..	..	..	..	..	11
Waghai	..	..	..	..	7	..	..
Kaira	..	..	..	..	7	9	..
Mehmedabad	..	..	..	..	14	..	..
Matar	..	..	..	..	10	..	..
Nadiad	..	..	..	..	7	7	..
Godhra	..	..	..	..	8	..	..
Kalol	..	..	..	..	10	..	..
Halol	..	..	..	..	8	..	..
Dohad	..	..	..	..	11	..	..
Ahmedabad	..	..	..	..	5	..	..
Rambapur	..	..	..	8	..	..	..

15. *Low pressure area off Kanara between 21st-23rd August, 1933.*—The monsoon weakened in the Peninsula and in and around the central parts of the country towards the end of the second week of August and pressure was generally higher than usual over the belt extending from Gujarat to Upper Burma. It began to strengthen in Malabar on the 16th and extended upto north Kanara by the 20th. Amini Devi had 3″ of rain on the 21st, the wind at that station having backed to W. (force 7) by 8 hours on the 22nd from NNW (force 6) on the previous day. Pressure also fell in the west Deccan and along and off Kanara and the Konkan on the 21st and a low pressure area appeared off north Kanara on the 22nd morning. Upper winds at Mangalore which were from NW upto 2 Km. on the 21st had also backed and were blowing from a southeasterly to southerly direction on the 22nd morning while those at Bombay and Poona which were coming from NW upto 1·5 Km. had during the same time veered to north or northeast. The low pressure area persisted off north Kanara during the next 36 hours and filled up thereafter. It was responsible for fairly widespread thundershowers in the west of the Peninsula.

16. *Shallow land depression between 21st and 27th August, 1933.*—The Bay monsoon strengthened after the 15th and widespread and locally heavy rain occurred in Assam and Bengal between the 15th and 20th. With the westward deflection of this current a shallow land depression appeared over Bihar on the 21st morning, the cyclonic circulation extending in the upper air at least upto a height of 3 Km. on that day. The depression moved slowly westnorthwestwards and was practically stationary near Allahabad between the 23rd and 24th. Thereafter it moved northwestwards to the southeast Punjab where it filled up on the 28th. This depression caused strong monsoon along and near its track and revived it in the central parts of the country and the north of the Peninsula.

17. *Depression in the east Arabian Sea between the 5th and 15th September, 1933.*—The monsoon was strong in the southeast Arabian Sea and in the south of the Peninsula in the beginning of September ; Amini Devi had 5″ of rain on the 1st, having also recorded 4″ on the previous day. Pressure was higher than usual over and around the centre of the country at the beginning of the month so that it was relatively low along and off Malabar. A general strengthening of the monsoon took place in the south of the Indian area on the 4th, and a low pressure area appeared off north Kanara on the 5th morning. The low pressure area persisted off north Konkan till the 9th when pressure fell along and off Konkan-Kathiawar coast and a depression appeared off the Bombay coast on the 9th morning with centre almost 75 miles to the west of Bombay. The upper winds at Bombay and Poona had also come under the influence of this depression off Bombay on the 10th morning ; at Bombay the wind at 0·5 Km. (the limit of pilot balloon ascent) was coming from southeast (force 6) and stratus cloud was from south, while at Poona the wind at 1 Km. was from south (force 2) and at 1·5 Km. (limit of pilot balloon ascent) from southwest (force 4). The pressure departure near the centre of the depression on the 10th morning must have been at least 0·25″.

The depression moved westnorthwestwards and was centred about 75 miles to the southeast of Veraval on the 11th morning. The activity of the monsoon in Gujarat was however less marked on the 10th than on the 9th and it indicated a possible weakening of the depression. This was probably due to the northwestward movement of a depression from the Bay which was approaching north Hyderabad on the 11th morning, the upper winds over the northwest of the Peninsula having come under the influence of this depression by that evening. By the 12th morning both the depressions, the one in the Arabian Sea off Veraval and the one near Hyderabad Deccan, had weakened. The low pressure area off Kathiawar persisted there till the 15th. After this the weather in and around the northwest of the Peninsula was controlled by a fresh depression from the Bay of Bengal which had moved northwestwards and lay slightly to the east of Kotah in east Rajputana on the 16th morning.

This Arabian Sea depression was responsible for widespread and locally heavy rain in the western half of the Peninsula including Gujarat.

18. *Depression of 6th-12th September, 1933.*—On the morning of the 5th, the weather charts indicated that :—

1. The monsoon was strengthening to the south of latitude 12°N.
2. The pressure distribution over north and central Bay was flat.
3. The pressure was appreciably below normal practically over the whole of the central and south Bay.
4. A feeble cyclonic circulation existed in the Bay off the Orissa-Circars coast as seen from the ships' observations given below :—

Date.	Steamer.	Hour.	Position.				Wind.	
			Lat. N.		Long. E.		Dir.	Force.
			°	′	°	′		
5th September	Alice Moller	08-00	15	4	84	0	SW	3
	Suisang	06-30	18	6	89	8	SW	2
		08-00	18	8	89	8	SW	2
	Himalay Maru	08-00	20	4	90	6	S	3
	Chyebassa	06-30	19	2	87	3	NE	1
		08-00	19	4	87	3	E	1
	City of Darby	08-00	18	4	84	9	ENE	1

The cyclonic circulation had also established itself over the north and central Bay upto a height of 4 Km.

These facts suggested that conditions were becoming favourable for the formation of a depression off the Circars coast. During the course of the day the unsettled conditions became more marked and by the next morning a shallow depression had formed with central region within a degree of Lat. 16½°N., Long. 87°E.

The depression moved slowly in a westerly direction without showing any signs of intensification and was centred next morning (*i.e.*, 7th) within half a degree of Lat. 16½°N., Long. 85½°E. Thereafter it took a north westerly course and was centred at 17 hours within half a degree of Lat. 17°N. and Long. 85°E.

It continued to move slowly in a northwesterly direction and was centred about 80 miles southeast of Calingapatam on the morning of the 8th and by 17 hours of that day it lay with its centre very close to Calingapatam. During the course of the next 36 hours it remained practically stationary with its central region very close to the coast between Calingapatam and Cocanada. By the early morning of the 10th it crossed the Circars coast to the south of Calingapatam and was centred at 8 hours near Jagdalpur in the east Central Provinces. Moving further in a northwesterly direction it lay near Chanda on the morning of the 11th. Thereafter it weakened and filled up over the west Central Provinces on the 12th. It caused widespread rain in the north of the Peninsula and the central parts of the country, with locally heavy falls to the south of its track.

19. *Shallow depression of 12th-19th September, 1933.*—On the afternoon of the 11th, pressure fell over the northwest angle of the Bay and along the coastal districts of Orissa. By 8 hrs. of the next morning a shallow depression of small extent formed in the northwest angle of the Bay with central region very near the coast between Puri and Chandbali. Without showing any signs of intensification it passed inland by the evening of the 12th and lay over the east Central Provinces on the 13th morning. Moving in a northwesterly direction it was centred slightly to the north of Nagpur on the 14th and near Bhopal on the 15th. It then moved practically northwards and was centred near Kotah on the 16th and 17th, near Jaipur on the 18th and near Hissar on the 19th, and broke up against Simla hills thereafter. It caused strong monsoon with locally heavy rain along and near its track in the Central Provinces, west Central India, east Rajputana, the Punjab and the west United Provinces. The monsoon also strengthened in Gujarat, the north Bombay Deccan and the Konkan between the 15th and 18th and extended into the North-West Frontier Province on the 17th and in the south-west Punjab during the 17th and 18th. Some of the heavy falls of 5″ and above during the course of this depression were :—

Stations.	13th.	14th.	15th.	16th.	17th.	18th.	19th
	″	″	″	″	″	″	″
Nagpur	6	..	..	..	..	..	..
Raipur	5	..	..	..	..	..	..
Amraoti	..	7	..	..	..	..	..
Khandwa	..	6	..	..	..	..	..
Indore	..	..	6	..	..	..	..
Delhi	..	..	..	..	6	..	..
Ambala	..	..	..	..	..	6	6
Dharampore	..	..	..	..	..	..	6

20. *Storm of 17th-21st September, 1933.*—On the morning of the 14th a marked fall of pressure was noticed over Burma, while widespread light to moderate rain was reported from Lower Burma with a heavy fall of 5″ at Tavoy. In the upper air a "low" existed over central parts of Burma upto a height of 2 Kms. These facts suggested that a low pressure wave from the east was travelling across Burma.

During the course of the day pressure fell further over the province and another heavy fall of 6″ was recorded at Tavoy between 8 hrs. of the 14th and 15th ; rainfall had also extended further along the Chittagong-Arakan coast and south-east Bengal.

Some more heavy falls, including 7″ at Tavoy and 5″ at Amherst, occurred during next 24 hours ending at 8 hours of the 16th and pressure had fallen further in central Burma and in the Bay off the Arakan coast on the 15th. A shallow low pressure area lay over central Burma and the east Bay off the Arakan coast on the 16th morning. The monsoon was strengthening to the south of latitude fifteen while the observations from the coastal stations and ships showed that a feeble cyclonic circulation was being established over the east Bay off the Arakan coast.

During the course of the 16th, pressure fell still further over the north and central Bay and signs were noticeable of a depression forming off the south Arakan coast. By 8 hours of the same day a shallow depression had formed in the east central Bay with central region within a degree of Lat. 17°N., Long. 93°E. as shown by the following observations from ships and from some coastal stations.

Date.	Steamer or Station.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
			° ′	° ′			
17th September	"Gairsoppa"	8	19 3	92 6	E	2	o, q.
	Sandoway	8	..	..	ENE	1	
	Gwa	8	..	..	SSE	2	
	Bassein	8	..	..	SSW	1	
	Diamond Island	8	..	..	SSW	2	
	"Jaladurga"	8	15 8	93 4	S	2	
	"Karagola"	6-30	16 0	93 7	NW	2	

In the upper air the cyclonic circulation over the north and central Bay had extended up to about 4 Km. height.

The depression intensified rapidly during the course of that day without showing any signs of movement. Most of the ships which were in the disturbed area reported a negative barometric tendency of ·09″ between 15-30 and 17-30 hours of the 17th indicating thereby that pressure was falling rapidly over the region and the depression was deepening.

After 17 hrs. of the 17th the depression took a northwesterly course intensifying at the same time and was centred on the morning of the 18th within half a degree Lat. 18°N., Long. 92°E. At this stage pressure departure near its centre was of the order of —·03″. Under its influence the monsoon had strengthened in the south of latitude 18°N. In the upper air westerly or southwesterly winds of force 8, 10, and 11 were reported from Port Blair at 0·5, 1·0 and 1·5 Km. respectively.

The deep depression intensified still further and became a storm by the evening of the 18th with centre within half a degree of Lat. 18½°N., Long. 91½°E. Rough or moderate seas and continuous rain or drizzle were reported by most of the ships to the west and south of the disturbed area. Pressure departure near the centre of the storm was of the order of —0·35″ at this stage. Continuing to move slowly in a northwesterly direction, the storm was centred within half a degree of Lat. 19°N., Long. 91°E. on the morning of the 19th. Under its influence monsoon had been active in Burma and round the head of the Bay. The storm persisted along the same course and was centred about 80 miles to the southeast of Saugor Island on the morning of the 20th, after causing widespread rain round the head of the Bay with locally heavy falls along the Arakan-Chittagong coast.

Some observations from ships which were at one time or other within 100 miles of the storm-centre are given below. A study of the table will show that at no stage winds of storm or gale force were experienced near about the centre.

Date.	Steamer.	Hour.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	Force.			
			° ′	° ′					
18th September	"Karagola"	15-30	20 1	89 1	NE	2	Slight	Confused, SW.	
	"Suisang"	17-30	18 4	89 7	WNW	4	Rough	Moderate, W	Continuous moderate rain (Rain).
	"Chilka"	17-30	17 1	90 6	W	6	Rough	Moderate, SW	Drizzle (Drizzle).
19th September	"Suisang"	06-30	16 7	91 3	SW	7	Very rough	Heavy, SW.	
	"Akita Maru"	08-00	17 6	91 8	WSW	7	..	..	Squall rain.
	"Ganges"	08-00	19 2	89 8	WNW	5	Moderate	Moderate, W	
	"Ganges"	09-30	19 7	89 4	NW	2	Slight	Confused, confused.	Rain (Rain).
	"Ganges"	12-30	20 0	89 2	NNW	5	Moderate	Low, SW	(Rain).
20th September	"Ekma"	01-30	20 4	88 9	WNW	5	Moderate	Moderate, W	Continuous slight rain (Drizzle).
	"Ekma"	05-30	19 7	89 6	WSW	5	Moderate	Moderate, SW	Intermittent slight rain. (Shower).

The following extracts from the logs of *S. S. Chilka* and *Sumatra Maru* which travelled through the disturbed area are also interesting :—

Date.	Steamer.	Hour.	Position.		Wind.		Sea.	Remarks.
			Lat. N.	Long. E.	Dir.	Force.		
			° ′	° ′				
17th September .	"Chilka" . .	Midnight	18 3	87 2	ESE	4	..	10-45 P.M. (I. S. T.) commenced raining with frequent heavy showers. Continuous lightning at night, commencing in eastwards moving towards NE and then passing over ship.
18th September .	"Chilka" . .	04-00	18 0	88 0	WSW	2	..	Lightning passed away to westwards. Continuous drizzle.
		08-00	17 7	88 8	NW	5	..	(Passing showers during watch). Overcast dull with tendency to brighten in NW.
		12-00	17 6	89 3	NW	5	..	(Fine since 8 A.M.) 11-30 drizzle commenced, overcast.
		14-00	..	..	W/S	5	..	Wind settled in W/S and slowly increasing.
		16-00	17 1	90 0	W/S	6	..	Occasional slight drizzle-dull overcast.
	"Sumatra Maru" .	08-00	15 6	95 2	SSW	7	High	Moderate gale. Squally.
		12-00	15 5	94 6	SSW	7	High	Moderate gale, cloudy.
		16-00	15 8	94 2	SW	7	High	Moderate gale, cloudy.
		20-00	16 1	93 9	WSW	7	High	Moderate gale, overcast.
		24-00	16 4	93 5	SW	7	High	Moderate gale, overcast.
19th September .	"Sumatra Maru" .	04-00	16 8	93 1	SW	7	High	Moderate gale, overcast.
		08-00	17 1	92 8	SW	7	High	Moderate gale, overcast.
		12-00	17 4	92 4	SW	7	High	Moderate gale, overcast (Heavy rain squalls).
		16-00	17 7	92 0	SW	7	High	Moderate gale, overcast (Heavy rain squalls).
		20-00	18 0	91 6	SW	7	High	Moderate gale, overcast.
		24-00	18 3	91 2	SW	7	High	Moderate gale, overcast.
20th September .	"Sumatra Maru" .	04-00	18 7	90 8	SW	7	High	Moderate gale, cloudy.
		08-00	19 0	90 4	SW	7	High	Cloudy (Heavy rainsqualls).
		12-00	19 3	90 0	SW	7	High	Squally, cloudy.
		16-00	19 6	89 7	SW	7	High	Cloudy.
		20-00	19 8	89 4	SW	6	High	Cloudy.
		24-00	20 1	89 1	SSW	6	High	Squally, cloudy.

As the storm approached the Bengal coast the weather in the coastal districts of Orissa, Bengal and Chittagong deteriorated, and squalls accompanied by continuous rain and drizzle were experienced by several stations in Bengal

and Arakan coast. Extract from the logs of *L. V. Star* which plied in the Hooghly river is interesting in this connection.

Hour.	Wind.	Force.	Weather.	Sky.	REMARKS.
			19th September 1933.		
2	N	3	Dull	OC	A. M. weather dull and unsettled overcast with heavy showers. Noon weather the same. 20-10 hrs. T. S. with very heavy rain and vivid lightning lasted until 22-00 hrs. Mid-night weather squall and unsettled with rain and vivid lightning.
4	N	3	Squall	OCP	
6	N	3	Squall	OCP	
8	NW	3	Squall	OCP	
10	NW	3	Squall	OCP	
12	NW	3	Squall	OC	
14	NW	2	Dull	OC	
16	NW	2	Dull	OC	
18	W	2	Dull	OC	
20	SW	3	Squall	OCTLR	
22	NW	1	Squall	OCR	
24	NW	2	Squall	OCR	
			20th September 1933.		
2	NW	3	Wet	OCR	A. M. weather dull wet and unsettled. Sunrise heavy squalls with heavy rain moderate sea and swell. Noon weather squall with rain. Sunset dense masses of wicked looking cloud all round the horizon. Mid-night weather squalls with rain heavy swell and sea.
4	W	3	Wet	OCR	
6	NW	4-5	Squall	OCTLR	
8	NW	3	Squall	OCR	
10	WNW	3	Squall	OCD	
12	WNW	4-5	Squall	OCR	
14	WNW	5	Squall	OCR	
16	W	5	Squall	OCR	
18	SSW	4	Squall	OCR	
20	SSW	4-5	Squall	OCR	
22	SW	4-5	Squall	OC	
24	SW	5	Squall	OCR	

By the evening of the 20th the storm crossed coast near Saugor Island and caused very bad weather in southwest Bengal. The weather diary of the Calcutta and Midnapore observers for the 19th, 20th and 21st is given below :—

Station.	19th September.	20th September.	21st September.
Midnapore .	Unsettled weather with occasional rain or showers.	Very bad weather with rain or drizzle and occasional thunder and lightning with strong wind.	Bad weather with rain and drizzle upto noon and showers in evening, wind strong.
Calcutta .	..	Sky was overcast all day long. Gusty weather in the morning. Squally weather at 14 hours which continued throughout. Intermittent drizzle and rain throughout day.	Squally weather in the early morning. Intermittent drizzle and rain throughout the day Heavy rain 14-53 to 15-23.

On the morning of the 21st it lay as a deep depression over Chota Nagpur. Thereafter it continued to move northwestwards and was centred between Daltonganj and Pendra on the 22nd morning, near Umaria on the 23rd, near Nowgong on the 24th and between Jaipur and Agra on the 25th. Then it assumed a more northerly course and was located near Hissar on the morning of the 26th. After this it slowly filled up during the course of the next two days.

During the course of this disturbance the monsoon was strong in Lower Burma between the 13th and 20th, rainfall being locally heavy in Tenasserim and Pegu between the 13th and 17th and in Arakan on the 19th. The disturbance was also responsible for widespread and locally heavy rain in northeast India, the United Provinces, the central parts of the country and the eastern districts of Rajputana and the Punjab. Outside the area affected by this depression there was very little rain as the monsoon had begun to weaken towards the end of the 3rd week of September.

Heavy rain in the southeast Punjab and the Punjab-Kumaon hills in connection with this as well as the shallow depression of 12th-17th September was reported to have caused severe floods in the Jumna which resulted in considerable damage to property and cattle, especially in Rohtak and in the adjoining districts of southeast Punjab. Heavy rain in the Wardha district (C. P.) also caused floods in the Wana river as a result of which many houses collapsed, cotton crop was damaged and several cattle drowned.

Some of the heavy falls of 5″ and above during the course of this disturbance are noted below :—

Station.	14th.	15th.	16th.	19th.	20th.	21st.	22nd.	23rd.	24th.
	″	″	″	″	″	″	″	″	″
Tavoy . .	5	6	7	..	..	..	..	..	..
Ahmerst . .	..	..	5	..	5	..	..	..	..
Sandoway . .	..	..	..	5	..	..	..	..	..
Kanpetlet . .	..	..	..	5	..	..	..	..	..
Akyab . .	..	..	..	..	7	5	7	..	..
Kyaukpyu . .	..	..	..	..	..	6	..	..	..
Sambalpur . .	..	..	..	..	..	..	5	..	..
Pachmarhi . .	..	..	..	..	..	..	7	..	..
Pendra . .	..	..	..	..	..	..	..	5	..
Umaria . .	..	..	..	..	..	..	..	..	5
Jubbulpur . .	..	..	..	..	..	..	..	..	6
Saugor Cantonment	..	..	..	..	..	..	..	..	6

21. *Depression between the 12th and 19th October 1933.*— Conditions were unsettled in the southwest of the Bay of Bengal off the Coromandal coast after the 6th and fairly widespread thunderstorm rain occurred in south Madras between the 7th and 11th. With the westward movement of the unsettled conditions across the south of the Peninsula into the southeast Arabian Sea, a low pressure area appeared off Malabar on the 12th morning. Upper winds at Mangalore which were mainly easterly upto 2·5 Km. on the 11th had also veered to southeast by the next morning ; the upper winds at Trivandrum were not however under the influence of the low pressure area. Pressure fell in the neighbourhood of Amini Devi on the 12th and the low pressure area showed signs of concentration in that region on the next day ; in the meantime the upper winds at Mangalore had also strengthened and were coming from southeast with force 7 near about 0·5 Km. (limit of pilot balloon ascent) on the 13th morning. By the next day a shallow depression had formed in the east Arabian Sea off Kanara with centre about 150 miles to the northwest of Amini Devi ; the upper winds at Mangalore had also during this period veered to south.

In the next 24 hours the depression moved slightly westwards and intensified somewhat at the same time. The upper winds upto 4 Km. on the 16th morning were coming mainly from the south (force 3-7) at Mangalore and from the east (force 6-7) at Bombay. The depression persisted there apparently without any weakening for the next two days. Thereafter the winds in the west of the Peninsula came under the influence of a storm from the Bay of Bengal, which crossed the Circars coast between Masulipatam and Cocanada on the 18th morning, and the depression in the east Arabian Sea filled up rapidly by the 19th. Squally weather however continued in the southeast Arabian Sea along and off south Kanara on the 19th.

Rainfall continued to be widespread in south Madras till the 15th and also extended into the Konkan and the Bombay Deccan; between the 15th and 19th rainfall was confined to Malabar and neighbourhood.

22. *Storm of 13th-22nd October 1933.*—The influence of a low pressure wave travelling from the east was first noticeable in Lower Burma on the afternoon of the 10th. By the morning of the 11th pressure fell further over that region and during the course of the next 24 hours the low pressure wave had passed out into the Andaman Sea and nearly general intermittent light rain had occurred in Lower Burma. On the morning of the 12th a shallow low appeared over the Andaman Sea, while in the upper air a cyclonic circulation existed over that region up to a height of at least 2 Km. Rainsqualls were reported by *S. S. Sirdhana* (Lat. 14·4°N., Long. 93·2°E.) and *S. S. Tokushima* (Lat. 15·5°N., Long. 94·1°E.) which were situated between Diamond Island and Port Blair. These facts suggested that conditions were becoming unsettled over the Andaman Sea and neighbourhood.

The unsettled conditions intensified during the rest of the day, and developed into a shallow depression by the morning of the 13th, with central region in the neighbourhood of Lat. 11°N., Long. 92°E. The following ships' together with Port Blair observations indicated that a cyclonic circulation had established itself over the Andaman Sea and the southeast Bay.

Date.	Station or Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
			° ′	° ′			
13th October . .	Port Blair . .	08-00	..	..	ESE	1	(Showers).
	"Ranee" . .	08-00	12 2	90 3	ENE	1—2	
	"Garmula" . .	06-30	11 6	89 5	NNW	2	Drizzle (drizzle).
		08-00	9 2	86 1	WNW	3	
	"Yorkshire" .	05-30	11 3	88 9	NNW	3	Shower of slight or moderate rain. (showers).
	"Hatipara" . .	06-30	8 7	90 6	SW	3	Precipitation within sight. (Rain).
	"Shropshire" .	08-00	13 5	92 3	E	2	Generally cloudy, passing showers.

Moving slowly in a northwesterly direction the depression intensified gradually. Next morning (14th) it was centred within a degree of Lat. 13°N., Long. 90°E. By this time the cyclonic circulation round the centre of the depression had become more pronounced, while in the upper air the circulation had established itself over the Bay upto a height of at least 3 Kms. During the course of that day, the depression intensified further. Ships observations indicated that winds to the south west and north east of the centre of the depression had strengthened. At 19 hours when the depression was centred within a degree of Lat. 13½°, Long. 89°, strong winds were reported by Diamond Island and *S. S. Khandalla.*

Date.	Steamer or Station.	Hour.	Position.		Wind.		Sea.	Remarks.
			Lat. N.	Long. E.	Dir.	Force.		
			° ′	° ′				
14th October . .	"Khandalla" .	17-30	17 9	91 4	SE	6	Rough	Rain squalls.
		19-00	16 9	92 4	ESE	6	Rough	
	Diamond Island .	19-00	..	..	ESE	7	Rough	

The wind at Diamond Island was easterly force 5 at 8 hours of the 14th. With the intensification of the depression the wind veered and increased in force. Both at 19 hours and 23 hours Diamond Island reported southeasterly wind of force 7, although the centre of the disturbance was about 300 miles away. An extract from the weather diary of the meteorological observer at Diamond Island for 14th and 15th is given below :—

"*14th October 1933.*—0 to 18 hours sky mainly overcast. Heavy continuous rain between 1 and 6 hours then intermittent drizzles. Breeze fresh to strong from eastwards. Sea moderate. Swell average length, moderate height, from eastward. 18 to 0 hours variable sky. K N clouds on horizon W to N. Drizzle. Breeze moderate gale from ESE. Sea rough, swell average, length moderate, height from eastward.

15th October 1933.—0 to 16 hours sky mainly overcast. N and K N clouds. Intermittent heavy rain. Strong breeze from SE. Sea rough to moderate. Swell average, height moderate. 16 to 0 sky more or less clear. K N clouds on horizon. No rain. Breeze dropped to fresh. Sea moderate swell average, length, moderate, height from southeastward."

Continuing to move in a northwesterly direction, the deep depression lay with centre within a degree of Lat. 14°N., Long. 88°E. on the 15th morning when the pressure departure near the centre was of the order of —0·25". It continued to intensify throughout the day and by the evening of the 15th developed into a cyclonic storm with centre near Lat. 14½°N., Long. 87½°E. at 19 hours. By the afternoon of the 15th, the cyclonic circulation over the Bay had also further extended upto at least 4 Kms. height. Most of the ships between latitudes 9°N. and 18°N. and longitude 84°E. and 92°E. reported a negative barometric tendency of ·09" and moderate or rough seas at 17 hours, suggesting thereby that pressure was falling rapidly over the disturbed area.

The following extracts from the log of *S. S. Jaladurga* of the Scindia Steam Navigation Company on her way from Rangoon to Gopalpur are interesting. The ship sailing in the northern quadrant of the storm followed more or less a parallel course to that of the storm.

Date.	Hour.	Position.		Wind.		Weather at time of observation.	Sea.	Swell.	Remarks.
		Lat. N.	Long. E.	Dir.	Force.				
		° ′	° ′						
15th October .	Noon	16 1	92 8	SE	4—5	o, p, q, r .	Moderate	Low, confused.	Passing squalls of heavy rain.
	4 P. M.	16 5	92 1	SE	4—5	o, p, q . .	Moderate	Low, SE	
	8 P. M.	16 8	91 2	SE/E	5	o, q . .	Moderate	Low, SE	Occasional drizzle.
	Midnight	17 1	90 4	SE/E	4	o, q . .	Moderate	Low, SE	

Remarks.—Wind increased at 5 A. M. on clearing the land—Low long confused swell. At 8 A.M. deep depression reported practically stationary within ½° of Lat. 14°N., Long. 89°E. ship thus in right hand rear quadrant of depression. Hence hourly observations started. Bar. falling very slowly. Wind steady at SE/S with a tendency to decrease towards Sunset.

Date.	Hour.	Position.		Wind.		Weather at time of observation.	Sea.	Swell.	Remarks.
		Lat. N.	Long. E.	Dir.	Force.				
		° ′	° ′						
16th October .	4 A. M.	17 4	89 6	SE	4—5	o . . .	Rough	Low, SE	
	8 A. M.	17 7	88 9	..	5	c, q . .	Rough	Moderate, SE, swell increasing.	
	Noon	17 8	87 8	SE	6—7	..	Rough	Moderate, SE	
	4 P. M.	17 9	87 0	S/E	7	c, q . .	Rough	Heavy, SE	4·0 hove to heading S, watching progression of storm.
	8 P. M.	17 5	86 8	..	4	o, q, l . .	Rough	Moderate, SE.	8·0 received message from Gopalpur to try and make port resumed course to Gopalpore.
	12 P. M.	18 1	86 2	NE	5	o, q . .	Rough	Moderate, SE.	

Remarks.—Wind increasing gradually from 7 A.M. At 8 A.M. cyclonic storm reported centred within ½° of Lat. 15½°N., Long. 86½°E. moving in some NW'ly direction. Course was altered at 10 A.M. for Vizagapatam owing to the storm approaching the coast and thus making the landing of passengers not possible. Heavy rainsqualls commenced. Wind increased gradually till 4 P.M. and the bar. continued to fall very slowly till 8 P.M. when ship resumed her course towards Gopalpur upon receipt of message to try and make port. Weather moderated as ship proceeded north. Wind backed to NE and increased to force 5 during a rainsquall at 11-15 P.M.

Date.	Hour.	Position.		Wind.		Weather at time of observation.	Sea.	Swell.	Remarks.
		Lat. N.	Long. E.	Dir.	Force.				
		° ′	° ′						
17th October .	4 A. M.	18 8	85 6	NE	3—4	l, c, p, q . .	Slight	Low, ENE	Continuous light rain.
	8 A. M.	..	..	ENE	6	c, p, q . .	Rough	Moderate, ENE	
	Noon	18 9	84 7	SE/E	6—5	b, c, q . .	Rough	Moderate, E	
	4 P. M.	18 4	84 5	E	4	o, q, r . .	Rough	Moderate, E	Continuous heavy rainsqualls.
	8 P. M.	18 1	84 4	..	3	..	Rough	Moderate, ESE	
	Midnight	18 0	84 0	E/N	5	c, p . .	Rough	Moderate, E	

Remarks.—At 2 A.M. storm reported centred within about 100 miles east of Vizagapatam. Weather moderated considerably. Bar. steady sky clearing. Wind increased at daylight but the bar. continued steady. The ship was anchored off Gopalpur from 7-15 to 10 A.M. Very rough sea and heavy surf near the coast. The sky cleared after leaving Gopalpur but precipitation was in sight. Ship arrived Baruva at 12·15 but proceeded at 12·45 being unable to land passengers owing to heavy surf. Proceeding to Bimlipatam the ship was kept well out to sea, the land being obscured by continuous heavy rainsqualls. The bar. commenced falling at 1 P.M. and heavy rainsqualls continued till 9 P.M. At midnight wind increased slightly and ship again experienced heavy rain and hard squalls as she proceeded south.

Date.	Hour.	Position.		Wind.		Weather at time of observation.	Sea.	Swell.	Remarks.
		Lat. N.	Long. E.	Dir.	Force.				
		° ′	° ′						
18th October .	4 A. M.	17 6	83 4	E	4	..	Moderate	Moderate, ESE	
	8 A. M.	17 2	82 7	E	7	o, p, q, l . .	Very rough.	Confused	10·0 made Vakalapudi light ship having experienced SW'ly current 2½ running parallel to coast. Swell not perceptible owing to high sea.
	Noon	At Cocanada		SE	7/6	o, q, r . .	Very rough	Not perceptible owing to high sea.	

Remarks.—Vizagapatam light was made shortly after midnight, the ship having experienced a SW'ly set of 2½-3 knots setting parallel to the coast but the ship was hauled off as entering was considered unadvisable owing to stress of weather. Cruising to the Captain's orders heading for Cocanada. The bar. began to fall from 5 A.M. the swell was first confused latterly hardly perceptible owing to the high sea. The storm was reported to be crossing the coast between Masulipatam and Cocanada at 8 A.M. ship then about 30-50 miles north of the centre. Cross bearings of the land were obtained between 7 A.M. and arrival at Cocanada during short lulls in squalls which continued to hang over the land owing to the mountainous nature of the country. Wind veered gradually after the trough had passed the ship. At 10-19 A.M. anchored at Cocanada outer anchorage; the wind and sea moderated very rapidly between 2 and 4 P.M. when the ship proceeded to the usual anchorage. Sky cleared about 10 P.M.

Continuing to move in a northwesterly direction, the storm was centred next morning (16th) apparently within half a degree of Lat. 15°N., Long. 86¼°E. Ships nearest to the centre and in the southwest and northeast quadrant of the storm reported rough or very rough seas, rainsqualls and winds of force 5 or 6. Under its influence nearly general rain had occurred in Bengal, Orissa and the north Madras coast with a few heavy falls in southwest Bengal and Orissa during 24 hours ending at 8 hours of the 16th.

Observations from stations along Orissa, Circars, Coromandel coasts indicated that squalls began to be experienced along the coast after 11 hours of the 16th. At 14 hours the storm was centred within half a degree of Lat. 15½°N., Long. 85½°E. Thereafter it took up a more westerly course and was centred at 19 hours about 150 miles southeast of Vizagapatam.

The storm then began to move in a westnorthwesterly direction and was centred about 100 miles southeast of Cocanada on the morning of the 17th. During the previous 24 hours it had caused heavy falls of rain along Bengal, Orissa and north Circars coasts, Saugor Island reporting 13″.

Some very heavy squalls were experienced along Orissa-Circars coast between 11 hours and 19 hours of the 17th as given in the table below.

Date.	Station.	Hour.	Direction.	Force.	Remarks.
17th October.	Vizagapatam .	11	ENE	9 .	Gusty weather followed by a succession of sudden squalls.
		12	NE	9	
	Cocanada .	10	N	7	Light wind followed by sudden squall.
		12	NE	6	
	Puri . .	18	E	8	Gusty weather followed by a succession of sudden squalls.

The weather remarks from Port Officers, Madras, Vizagapatam and Cocanada for 17th and 18th October are also interesting.

(*a*) *Madras.*

"*17th October 1933.*—The weather was cloudy and misty with drizzles at intervals between 2-5 and 4-5 A.M. and again between 5-26 and 5-59 P.M. The highest wind velocity was 30 m.p.h. at 3-20 A.M. direction WSW barometer dropped ·02″ in 24 hours."

"*18th October 1933.*—Weather was fine during the day and got cloudy and windy towards night. The highest wind velocity was 35 m.p.h. at 8-55 P.M. direction south. Barometer dropped ·02″ in 24 hours."

(*b*) *Vizagapatam.*

"*18th October 1933.*—13-35 hours. Cloudy with drizzling. Sea rough with swell. 22-00 hours. Cloudy, stormy winds, sea not visible."

(*c*) *Cocanada.*

"*17th October 1933.*—11-20 A.M. Sky overcast with N and AS clouds and occasional rain and showers continued, N and NNE winds blowing and winds becoming squally."

"*18th October 1933.*—6-00 A.M. Sky completely overcast with N and AS clouds and squally weather. 5-35 P.M. Sky completely clouded with N and AS clouds and S and SSW winds blowing and rough seas."

Continuing to move in a westnorthwesterly direction the storm was centred about 70 miles southeast of Cocanada at 14 hours of the 17th. Winds along Orissa-Circars coast strengthened and squally weather persisted. The wind at Cocanada which was northeasterly force 3 at 23 hours of the 17th strengthened to force 7 northeasterly at 2 hours of the 18th and to force 8 easterly at 5 hours and 8 hours of the 18th. The storm crossed the Circars coast between Cocanada and Masulipatam on the morning of the 18th, when pressure departure near the centre was of the order of —0·4″.

By 17 hours of the same day the storm was well inland centred about 100 miles to the west of Cocanada and had weakened. With the passing inland of the storm, strong monsoon and squally weather prevailed for a time off the Coromandel-Circars coast but weather moderated gradually afterwards.

On the morning of the 19th, it lay as a deep depression over north Hyderabad about 150 miles to the south of Nagpur. Thereafter the depression passed through the central parts of the country and weakening lay over the east United Provinces on the 21st and filled up there by the morning of the 22nd.

Under its influence, local rain occurred along the Burma coast and widespread rain in northeast India, the Peninsula, the central parts of the country and the United Provinces. Rainfall was locally heavy along the coast between Saugor Island and Masulipatam between the 15th and the 17th, Saugor Island reporting 13″ on the 17th. Locally heavy rain also occurred along and near the track of the depression on land, it being unusually heavy in the United Provinces and east Central India for the time of the year.

It is reported that floods on the river Tammeleree near Ellore caused damage to property. Considerable damage was also done to the rabi crops in the United Provinces. Some newspaper reports in this connection are given below :—

Star of India, dated 20th October 1933.

Floods in south India.

M. S. M. Railway Breached.

Bezwada, October 19.

"The line between Bhimodale and Badambudy on the Bezwada-Rajahmundry section of the M. & S. M. Railway is breached due to floods. Through communication is interrupted. Transhipment is not possible at present. Passenger traffic is being diverted *via* Gudivada, Bhimavaram and Nidadavole."

Statesman of 24th October 1933.

South India Floods.

Cocanada villages under water.

Cocanada, October 21.

Owing to the rising of the river Eleru due to heavy rains nearly half the villages in Cocanada taluk are under water. No loss of life is reported so far. The Samalkot canal bund has been breached.

The following table gives the noteworthy falls of 5″ or more which occurred during the course of the disturbance.

Station.	14th.	16th.	17th.	18th.	19th.	20th.	21th.
	″	″	″	″	″	″	″
Narasapuram	..	..	..	6	..	..	..
Kaikalur	..	..	..	..	9	..	..
Saugor Island	..	..	13	..	..	..	..
Canning Town	..	..	6	..	..	..	..
Contai	..	5	7	..	..	..	..
Ramnagar	..	8	..	..	..	..	..
Jenka	..	..	8	..	..	..	..
Uluberia	5	..	..	..	..	..	..
Budge Budge	5	..	..	..	..	..	..
Sore	5	5	..	..	5	..	..
Balipal	..	..	5	..	..	..	..
Eram (Basudebpur)	..	..	..	..	5	..	..
Rambha	..	..	..	6	..	..	..
Narasannapeta	..	..	..	5	..	..	..
G. Udayagiri	..	..	..	6	..	..	..
Mohana	..	..	..	6	..	..	..
Yellamanchili	..	..	..	6	..	..	..
Talabada	..	..	..	5	6	..	..
Lammasinghi	..	..	..	18	..	..	..
Goringa	..	..	..	5	..	..	..
Ramachandrapur	..	..	..	9	..	..	..
Alamuru	..	..	..	7	..	..	..
Kottapeta	..	..	..	6	..	..	..
Amalapuram	..	..	..	7	..	..	..
Mummidivaram	..	..	..	8	..	..	..

Station.	14th.	16th.	17th.	18th.	19th.	20th.	24th.
	"	"	"	"	"	"	"
Polavaram	..	..	..	..	10	..	..
Chodavaram	..	..	..	..	10	..	..
Tadepalligudem	..	..	..	..	5	..	..
Tanuku	..	..	..	5	..	..	..
Moradabad	..	..	..	..	..	5	..
Shajahanpur	..	..	..	..	..	..	5
Puranpur	..	..	..	..	..	..	5
Naini Tal	..	..	..	..	..	7	..

23. *Shallow depression of 3rd-13th November 1933.*—The appearance of a marked fall of pressure over Lower Burma and the Tenasserim on the morning of the 2nd November suggested that a low pressure wave was passing into the Andaman Sea from the east across Tenasserim. By the morning of the 3rd a shallow depression formed in the north Andaman Sea with central region in the neighbourhood of Lat. 14°N., Long. 97°E. The following observations from some of the coastal stations and ships indicated that a feeble cyclonic circulation existed over the Andaman Sea.

Date.	Station or Steamer.	Hour.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	Force.			
			° ′	° ′					
3rd November	Amherst	08-00	..	..	SSE	2	..	..	(Thunderstorm).
	Rangoon	08-00	..	..	N	1	..	..	
	"Karapara"	05-30	13 5	96 8	WSW	2	Slight	Low	Drizzle and rain.
	"Begum"	06-30	14 3	96 4	NNW	3	Slight	Low, SW	Rain, Thunderstorm
	"Begum"	08-00	14 1	96 5	NNW	3	..	..	
	"Warina"	06-30	15 5	96 0	NW	3	Slight	Low	Rain shower
	"Warina"	08-00	15 5	95 9	NW	3	Slight	Slight, NW	Overcast, passing showers.
	"Strathnaver"	08-00	14 1	98 0	SE/E	5	Moderate	Moderate, SE	Generally cloudy.

By the 3rd afternoon rainfall extended along the north Tenasserim coast and in the Irrawady and Pegu divisions while the depression had apparently weakened and lay as a trough of low pressure over the north Andaman Sea.

During the night, however, the trough of low pressure again intensified into a depression which was centred near Lat. 15°N., Long. 96°E. on the morning of the 4th. Without any appreciable movement or intensification, the depression persisted over the Gulf of Martaban till the morning of the 5th when it weakened into a low pressure area, which lay over the Andaman Sea and neighbourhood on the morning of the 6th. In this connection local falls of rain occurred in Lower Burma from the 3rd to the 7th.

This low pressure area began moving slowly westwards and lay off the south Coramandel coast on the morning of the 8th, when the southerly winds in the southwest of the Bay had strengthened. It caused widespread and locally heavy rain in southeast Madras during the day, but no further intensification of the low pressure area took place.

The following remarks from the Port Officer, Madras are interesting :—

10th November 1933.—"The weather was cloudy, misty and windy, rain at intervals between 3-45 and 3-58 A.M. and again between 4-43 and 12-20 A.M. the following day. The highest velocity was 32 miles at 7-30 A.M. direction NNE. The barometer dropped ·06 in 24 hours. But on the 9th forenoon the Port experienced heavy rain accompanied by heavy thunder and lightning which continued from 1 A.M. to 4-22 A.M. The highest velocity of wind was 40 miles at 1-55 A.M. direction ENE."

The low pressure area passed across the south of the Peninsula into the southeast Arabian Sea by the morning of the 10th. It persisted there and caused unsettled weather in the southeast Arabian Sea off Malabar between the 10th and the 13th and became unimportant thereafter.

In this connection widespread and locally heavy rain occurred in southeast Madras on the 8th, 9th and 10th; rainfall also extended into Malabar, Mysore, the south Konkan and the west Deccan during that period. It is reported that heavy rain in the Tinnevelly district caused considerable damage to crops and property there; many parts of the district were heavily flooded and rail traffic was temporarily suspended.

The noteworthy falls of 5" and above which occurred in southeast Madras are given in the table below :—

Station.	9th.	10th.
	"	"
Kurinjipadi	7	..
Manambadi (Porto Novo)	9	..
Chidambaram	7	..

Station.	9th.	10th.
	"	"
Mannargudi	6	..
Srimushnam	6	..
Shiyali	5	..
Neidavasal	6	..
Tranquebar	7	..
Negapatam	5	..
Tiruppundi	7	..
Srivilliputtur	..	5
Sivakasi	..	6
Sattur	..	5
Kayattar	..	7
Kadayanallur	..	6
Tenkasi	..	8
Palamcottah	..	8
Srivaikuntam	..	5

Station.	9th.	10th.
	"	"
Tinnevelly	..	10
Ayikkudi	..	7
Shencottah (P. W. D. Office)	..	6
Shencottah (Taluk Cutcherry)	..	6
Tamarakulam (old salt factory)	..	5
Tamarakulam (new salt factory)	..	6
Pollachi	..	6

24. *Severe Storm of 14th-19th November 1933.*—The north-east monsoon freshened in southeast Bay and south Andaman Sea after the 10th November. Associated with this strengthening heavy falls of 3" occurred at Sabang both on the 11th as well as on the 12th. On the morning of the 13th a marked fall of pressure was noticed over the Andaman Sea and neighbourhood and the existence of a feeble cyclonic circulation over the region was indicated by the following observations from ships and Sabang.

Date.	Steamer or Station.	Hour.	Position.		Wind.		Remarks.
			Lat. N.	Long. E.	Dir.	Force.	
			° ′	° ′			
13th	Sabang	08-00	..	..	S	3	Squally 3 h.
	"Bengal Maru"	08-00	5 6	96 2	ESE	4	Generally cloudy and squally.
	"Rohna"	06-30	6 6	92 2	NE	5	Heavy rain.
	"Rawalpindi"	08-00	5 9	90 6	WNW	5	Overcast sky.

These facts suggested that conditions were unsettled from the Andaman Sea to southeast Bay. This view was further supported by the existence of easterly or northeasterly winds of strong or gale force over Port Blair and Victoria Point upto about 2 Km. height.

Stations.	0·5 Km.		1 Km.		1·5 Km.		2 Km.	
	Force.	Dirn.	Force.	Dirn.	Force.	Dirn.	Force.	Dirn.
Port Blair	6	NNE	7	NE	8	ENE	11	NE
Victoria Point	7	E	8	E	11	E	..	..

During the course of the day the unsettled conditions became more marked. Rain was reported by *S.S. Rohna* (Lat. 7-5°N., Long. 90-1°E.) both at 16-30 and 18-30 hours and by *S. S. Rajula* (Lat. 8-0°N., Long. 89-9°E.) at 18-30 hours. By early morning of the 14th, a depression formed in the Andaman Sea with central region within a degree of Lat. 9°N., Long. 94½°E. *S. S. Rajula* whose position at 01-30 hours was Lat. 7-5°N., Long. 91-2°E. reported moderate sea, continuous rain and negative barometric tendency of the order of 0·15" suggesting thereby that the pressure was falling rapidly in the neighbourhood of Car Nicobar. At 8 hours of the same day the depression had apparently

deepened and was centred within a degree of Lat. 9½°N., Long. 92°E. The cyclonic circulation over the Andaman Sea and adjoining parts of southeast Bay had become more marked as seen from the observations of the following ships and Port Blair.

Date.	Steamer or Station.	Hour.	Position.		Wind.		Sea.	Remarks.
			Lat. N.	Long. E.	Dir.	Force.		
			° ′	° ′				
14th . .	Port Blair . . .	..	..	..	E	4	Rough .	Rain.
	"Rajula" . . .	06-30	7 0	92 9	WSW	6	V. Rough .	
	"Rohna" . . .	05-30	8 1	88 2	NNE	5	..	
	"Sirsa" . . .	06-30	11 9	89 6	NE	5	..	
	"Rajput" . . .	08-00	12 0	89 9	NE	5	..	Overcast sky. Passing showers.

Moving slowly westnorthwestwards, the deep depression continued to intensify during the course of the 14th. By the morning of the 15th it had developed into a storm centred within half a degree of Lat. 9½°N., Long. 90½°E. Port Blair surface wind which was eastsoutheasterly force 5 at 2 hours strengthened to force 7 at 8 hours of the 15th. In the upper air ESE wind of force 8 prevailed over Port Blair at 0·5 Km. (the limit of the pilot balloon flight).

The following extract from the weather diary of the meteorological observer, Port Blair, for 14th and 15th when the storm centre was within a distance of about 450 miles from the station throws some light on the early stages of development of the storm.

"*14th.*—There was variable light and heavy precipitation from 2-10 to 9-00 A.M. in the morning with intervals. KN and AS clouds were found in the morning. Nimbus also were found. Wind force 5 and 4 in Beaufort scale. Wind from East. Sea was rough; moderate swell. Afternoon there was rain from 1-10 P.M. to 7-18 P.M. Sea was very rough. Moderate swell. Nimbus were found. Moderate visibility and poor visibility at times. Generally stormy weather. Wind force 6 in the evening. Wind from ESE.

15th.—Stormy and dull weather during the day, rain from 12-10 to 12-35 and 4 to 4-5 A.M. and 10-25 to 10-40 A.M. Sea was very rough. High swell, wind force 7 and 6. Overcast. Nimbus were found. Wind from ESE. Afternoon rain from 1-20 to 1-30, 4 to 5-20, 7-20 to 7-30. Shower 10-15 to 10-20 P.M. Wind from SE, force 4 (Beaufort Scale). Sea was rough. Swell moderate."

The weather remarks of the Port Officer, Port Blair for that period are also of interest.

Date.	Condition of weather.	State of sea.	Force of wind.	General direction.
13th November .	Partly cloudy and indication of rain	Rough . . .	Strong . . .	NE
14th November .	Squally with rain	V. Rough . .	Very strong . .	NE
15th November .	Squally rain and weather suspicious	V. Rough and boisterous.	Very strong . .	S, SE
16th November .	Partly fair	Slight to rough .	Moderate . .	S, SE

The storm intensified further during its northwestward movement. *S. S. Hatimaru* which was on its way to Rangoon experienced rough seas and winds of force 8 while passing through the disturbed region. An extract from its logs for the 15th and 16th is given below:—

Date.	Hour.	Position.		Wind.		Weather.	Sea.	Swell.
		Lat. N.	Long. E.	Dir.	Force.			
		° ′	° ′					
15th November .	Noon	10 34	87 55	N/W	7	o, q	Rough . . .	Moderate, NE.
	14-00	10 38	88 01	N	7—8	..	....	....
	16-00	10 44	88 07	N/W	7—8	o, r	Rough . . .	Moderate, NE
	18-00	10 49	88 13	W/S	8	..	....	....

Date.	Hour.	Position. Lat. N.	Position. Long. E.	Wind. Dir.	Wind. Force.	Weather.	Sea.	Swell.
		° ′	° ′					
5th November .	20-00	10 53	88 19	W/S	6—7	q, o, r, g	High	Moderate. N.
	Midnight	11 03	88 31	SW/S	6	r, q, o	Rough . . .	Moderate.
16th November .	04-00	11 12	88 45	SSE	7	o, r	Rough . . .	Moderate.
	08-00	11 22	88 57	SSE	8	o, r	High	Heavy.
	10-00	11 26	89 03	SSE	8	..	....	....
	Noon	11 31	89 10	SSE	7	p	High	Heavy.
	16-00	11 52	89 39	S	6	o	Rough . . .	Moderate.

As seen from the above, wind in the neighbourhood of the centre attained gale force by about 14 hours of the 15th and it lasted till 18 hours when the wind decreased in strength and changed direction. A further strengthening of wind to gale force took place between and 8 and 10 hours of the 16th.

The strong monsoon current to the east of the storm centre caused heavy rainfall in the Andamans on the 15th as well as on the 16th. The storm continuing to move in a westnorthwesterly direction was centred within half a degree of Lat. 10°N., Long. 87°E. on the morning of the 16th. After 8 hours winds along the Orissa, Circars and Coromandal coasts strengthened generally and squally weather and rough seas were experienced by ships and the stations particularly along the Circars and north Coromandal coasts. At 17 hours when the centre of the storm was within half a degree of Lat. 11°N., Long. 86°E. the upper air data show that the cyclonic circulation over the south and central Bay had extended upto at least 4 Km. height.

Pursuing a northwesterly course, the storm still further intensified and became severe by the morning of the 17th when its centre was near Lat. 14°N., Long. 83°E. Ships to the northwest and southwest of the storm centre attained winds of fresh or strong gale force. The following extracts from the logs of some ships which were within a distance of about 250 miles from the centre of the storm are interesting.

Steamer.	Date.	Hour.	Position. Lat. N.	Position. Long. E.	Wind. Dir.	Wind. Force.	Weather.	Sea.	Swell.	Remarks.
			° ′	° ′						
"Jaladurga" . .	November 17.	08-00	Cocanada		ENE	8	t, o, q, l	High . .	Confused .	Storm approching.
		20-00	17 20	83 30	E/N	6	q, o, l, r	High to rough	Confused .	Wind and sea moderating. Bar rising rapidly.
"City of Venice" .	November 17.	08-00	14 05	81 29	NW/W	8	o, d	High . .	High.	
		20-00	..	..	SE	6	o	Rough . .	..	
"Cabarita" . .	November 17.	01-00	13 08	81 0	N	6	..	..	..	
		04-00	13 08	81 40	N	8	o, r	Rough . .	Moderate, NE	
		08-00	12 51	81 50	W/N	10	r	High . .	Heavy, NE .	Fierce rain.
		Noon	12 46	82 48	SW/W	7	..	V. High .	..	
		16-00	12 52	83 16	SW	7	o	High . .	Heavy.	
Surada . . .	November 17.	01-00	13 30	81 26	NW	9	o, r	Rough . .	Heavy.	
		04-00	13 35	81 37	NW	10	o, r	Rough . .	Heavy.	
		08-00	13 39	81 49	WNW	10	o, r, q	High . .	High . .	Continuous rain, squally with hurricane force.
		Noon	13 48	82 13	SW/W	10	o,r	High . .	High.	
		16-00	14 06	82 30	S/W	7	o	Rough . .	Heavy . .	

Steamer.	Date.	Hour.	Position. Lat. N.	Position. Long. E.	Wind. Dir.	Wind. Force.	Weather.	Sea.	Swell.	Remarks.
			° ′	° ′						
Nurjehan . . .	November 17.	10-00	16 28	82 30	ENE	10	o, r, q, u	..	..	Pyramidal sea, torrential rain.
		Noon	16 28	82 28	SE	9	o, r, q, u	..	..	Pyramidal sea, heavy rain. Inst. kept on board.
		14-00	16 28	82 28	SSE	9	o, r, q	..	..	Pyramidal sea, visibility 7 between squalls.
		18-00	16 26	82 28	SE	8	c	Precipitous .	..	
		20-00	16 36	82 33	SE	6	c	High . .	Moderate.	

From 6 A.M. to noon, 17th November 1933, a wind of force 10 from NE and ENE and finally SE was experienced by *S. S. Nurjehan*, with a precipitous pyramidal sea and very heavy SE swell. The barometer remained at 29·75″, temperature 81°F. and sky overcast with KN and scud which seemed to be flying at a very high speed. There were frequent rainsqualls from eastward with torrential rain, lasting in each case for about 20 minutes, the worst squalls being between 10 A.M. and noon. The sky cleared to the southeastward with a change of wind to SE at about noon and during the middle watch, from 2 P.M. to 4 P.M. the wind decreased leaving a high confused sea and very heavy swell from SE and the vessel was able to proceed. At midnight the wind was southeast, force 5 with a sky much clearer, K and KN, amount 6 and a moderate sea in Cocanada roads.

Since early morning of the 17th winds along the Circars and north Coromandal coast had considerably strengthened and after 8 hours rain commenced along the north Coromandal coast and extended in Ganjam during the day.

As the storm gradually approached the north Coromandal coast, the weather along the coast; deteriorated. The enclosed report from the Hindu of 18th November 1933 gives a very graphic picture of the weather experienced at Madras on the 17th. (See report given at the end of the description).

The following remarks of Port Officers at Cocanada and Madras for 17th and 18th are also interesting:—

Station.	Date.	Time.	Remarks.
Madras . .	16th	11 hours	The weather was cloudy and windy throughout the day. The state of sea outside the harbour was rough from the north. The highest wind velocity was 30 miles per hour at 1 P.M., direction north. The barometer dropped ·06″ in 24 hours.
Madras . .	17th	14 hours	The weather was cloudy and misty with high wind and rain throughout the day and gradually moderated by midnight. The state of sea was very rough from the south in the forenoon and gradually moderated by midnight. The highest velocity of wind was 46 miles at 1-20 P.M. direction WSW. The barometer dropped ·14″ in 24 hours.
Cocanda . .	17th	11 hours	Sky heavily clouded with KN and AS clouds. Fresh and strong NE and NNE winds blowing and showers.
		14 hours	Sky completely clouded with KN and AS clouds. Strong and occasional squally wind blowing from NE and weather becoming squally.
		18 hours	Sky heavily clouded with KN and AS clouds. Squally weather coming from NE and very rough sea.

At 14 hours the storm was centred within half a degree of Lat. 14½°N., Long. 82°E. and was apparently moving rapidly in a northwesterly direction. As it approached the coast between Nellore and Masulipatam, the barometer at Nellore which was 29·67 at 11 hours dropped down to 29·43 at 14 hours and further dropped to 28·95 at 17 hours. The following table gives the observations recorded at Nellore on the 17th.

Date.	Hour.	Bar.	Change during 24 hours.	Dep.	Wind. Dir.	Wind. Force.	Remarks.
		″	″	″			
17th . .	08-00	29·76	—·12	—·17	WNW	4	Continuous drizzle.
	11-00	·67	—·22	—·25	WNW	5	Continuous moderate drizzle.
	14-00	·43	—·37	—·42	WNW	5	Intermittent moderate drizzle.
	17-00	28·95	—·84	—·88	WNW	10	Moderate rain showers.
18th . .	08-00	29·85	+·09	—·08	SE	2	

At 17 hours the storm was centred very close to the coast between Masulipatam and Nellore. The above table shows that at this stage, the pressure departure near the centre of the storm was of the order of—0·9″ and winds in the neighbourhood of Nellore had attained terrific force.

The storm crossed coast between Nellore and Masulipatam during the early hours of the 18th and weakening thereafter lay as a depression over the Madras Deccan at 8 hours of the same day. It continued to weaken during its northwestward passage across the Deccan and after crossing the ghats it passed out into the east Arabian Sea as a low pressure wave by the 19th morning. In this connection weather was slightly disturbed off the Konkan during that day.

While the storm was approaching the Madras coast and during its subsequent movement widespread rain occurred in front of it, rainfall being locally heavy on the north Coromandal coast and in the Madras Deccan on the 17th. It is reported that strong winds in connection with this storm caused considerable damage to property in the Nellore district.

Some noteworthy falls of 5″ and above over northeast Madras are given below :—

Station.	18th.
	″
Guntur	7
Gudur	6

"THE HINDU", 17TH NOVEMBER 1933.

SQUALLY WEATHER IN MADRAS, BAY DEPRESSION MOVING NORTHWEST.

Rayapuram Embankment breached.

Madras, November 17.

The depression that has formed in the Bay has produced squally weather in the city since last evening accompanied by heavy showers. High winds began blowing yesterday afternoon and increased in intensity towards the early hours of this morning. The skies became heavily overcast soon after sunrise today and since, Madras has been experiencing a steady shower and winds. The temperature which stood at 82° yesterday fell considerably and at 3 P.M. today stood at 68°. The local storm signal has also been hoisted in the harbour signalling station. The rainfall recorded between 8 A.M. and 2 P.M. today is only 74 cents.

As a result of the weather conditions there was a swell in the harbour and ships at their moorings began to cause trouble. The *S. S. City of Venice* lying in the harbour began to tug at its moorings and break the ropes. It was with great effort that the harbour authorities succeeded in fastening up the vessel to her berth.

Rough Sea.

The sea has been rough since yesterday morning and towards nightfall became rougher still. Huge billows overtopped the eastern breakwater. The Rayapuram embankment was a striking sight this morning. Some of the huge boulders massed along the edge of the sea to break the force of the waves had been hurled far into the road. Heavy cast-iron pipes stacked on the foreshores were lifted up by the waves and thrown pell mell across the tram-track on the embankment. The tide advanced so far and the waves rose so high that sometimes they reached the road. They subsided a bit after sunrise and the clearing of the road for tram car traffic took sometime. The sea still continues rough.

The Rangoon steamer which usually leaves on Fridays at about 10 A.M. has been detained for a few hours. It is learnt it will leave by 3 P.M. Two steamers *S. S. Barbarigo* and *S. S. Cape St. George* due in the harbour today have not yet arrived. In all probability, they may not come in before tomorrow.

The depression is now located at about 200 miles northeast of Madras and is stated to be moving in a northwesterly direction with a possibility of curving due north at a velocity of about thirty miles an hour. If it maintains its present direction and velocity, it may strike the coast between Masulipatam and Cocanada in the course of this day.

The weather in the City, it is stated, is not likely to clear up before tomorrow afternoon.

25. *Severe Storm of 12th-17th December 1933.*—On the morning of the 10th, pressure change and departure charts show that pressure was falling over the south Bay and the Andaman sea and observations from ships suggested that the northeast monsoon was strengthening to the south of Lat. 10°N. By the morning of the next day strong monsoon winds were experienced in the south Bay. The following observations from ships indicated that a cyclonic circulation existed in the south Bay to the east of Ceylon.

Date.	Steamer.	Hour.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	Force.			
			° ′	° ′					
11th December .	"Unemaru" . .	08-00	8 8	89 2	SE	7	..	..	Generally cloudy and rain.
	"Birk" . .	08-00	8 5	84 8	N	6	High .	..	c. r. q.
	"Saugor" . .	06-30	5 6	87 2	SW	4	Moderate .	Low .	
	"Jalaveera" .	08-00	10 4	87 6	NE	5—6	..	..	Rain.
	"Barjora" . .	06-30	10 8	88 0	NE	5	Moderate .	Moderate .	Int. slight rain.
	"Goalpara" . .	06-30	10 2	87 1	NE	5	Rough .	Moderate .	Slight or moderate drizzle or rain.
	"Rajula" . .	10-30	10 1	85 2	NE	6	V. Rough .	..	Rain with squall.

Negative barometric tendencies of the order of 0·04″ were reported by *S. S. Rajula, Goalpara* and *Barjora* on the 11th morning. Most of the stations in Ceylon had rain on the 10th, Batticaloa recording 4″.

During the course of the day pressure continued to fall over the south Bay. Rough sea, squally weather and rain were reported by most ships to the south of Lat. 10°N. The observations of the ships given below suggested that a depression had formed in the south Bay on the 12th morning with central region in the neighbourhood of Lat. 7½°N., Long. 85½°E.

Date.	Steamer.	Hour.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	Force.			
			° ′	° ′					
12th December .	"Chitral" . .	00-00	6 1	86 8	NW/W	5	..	..	Cloudy, showers.
	"Chitral" . .	08-00	6 2	84 3	W/N	4	Rough .	Moderate .	Overcast.
	"Chitral" . .	11-30	6 1	84 5	WSW	7	..	..	
	"Rohna" . .	06-30	8 4	88 0	SSE	4	Moderate .	Moderate .	Int. slight rain.
	"Barjora" . .	06-30	8 9	85 2	ESE	5	..	..	
	"Goalpara" . .	06-30	8 5	84 4	NE	5	Rough .	Heavy .	Rain, squally.

S. S. Jalaveera of the Scindia Steam Navigation Company passed through the region of disturbed weather on her way from Rangoon to Colombo and an extract from her logs for the 12th is interesting.

Date.	Hour.	Position.		Wind.		Weather.	Sea.	Swell.	Remarks.
		Lat. N.	Long. E.	Dir.	Force.				
		° ′	° ′						
12th December .	04-00	..	..	E	6	..	..	..	7-45 A.M. wind backing. Wind increasing rapidly with very frequent fierce sq. Very rough confsd. sea and heavy confsd. swell. Vessel's speed reduced to avoid damage by weather at 11-15 A.M.
	06-30	8 05	84 6	NE	7	..	..	..	
	08-00	8 12	84 22	Var.	8	o. q. r.	V. Rough .	Heavy .	
	Noon	8 00	84 00	NW	8—9	o. q. r.	V. Rough .	Heavy .	Cont. heavy rain squalls.
	16-00	7 48	83 36	W/N	8	o. q. r.	V. Rough .	Heavy .	Weather moderating slightly.
12th December .	20-00	7 35	83 12	NW	7—8	o. q. r.	V. Rough .	Heavy, NW	Squally occurring less frequently. Weather gradually improving.
	Midnight	7 22	83 03	NW	6—7	o.r.	Rough .	Moderate .	Strong wind, light rain, heavy sea and swell, overcast and clear.
13th . .	04-00	7 08	82 45	NW	6	..	..	..	Improvement in weather steadily maintained.

At 8 hours of the 12th "*Jalaveera*" also reported a negative tendency of the order of 0·15″, suggesting thereby that the pressure was still falling rapidly to the east of Ceylon. During the course of the day the depression deepened and intensified into a storm by the same evening; it was centred at 17 hours within half a degree of Lat. 8½°N., Long. 85°E. Winds of gale force were reported on the 12th afternoon by the following two ships as well as by *S. S. Jalaveera* within a distance of about 150 miles from the centre of the disturbance.

Date.	Steamer.	Hour.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	Force.			
			° ′	° ′					
12th December .	"Barjora" . .	13-30	8 2	83 7	NW	8	V. Rough .	..	
		16-30	8 2	83 8	N	8	High .	Heavy .	Continuous rain.
		18-30	8 2	83 8	NNW	8	V. Rough .	Heavy .	Continuous heavy rain.
	"Goalpara" .	12-30	8 2	84 1	WNW	8	Rough .	Heavy .	Continuous heavy rain.
		16-30	7 5	83 5	W	8	High .	Heavy.	

The storm moved slowly in a northwesterly direction intensifying at the same time. By the morning of the 13th the cyclonic storm was centred within half a degree of Lat. 9½°N., Long. 83½°E. At this stage the cyclonic circulation in the upper air extended upto at least 4 Km. height. *S. S. Barjora* (Lat. 8-3°N., Long. 83-7°E.) which was about 80 miles to the south of the storm centre reported high sea, continuous rain and westsouthwesterly wind of force 9.

Continuing to move slowly in a northwesterly direction, the storm was centred near Lat. 10°N., Long. 82½°E. on the evening of the 13th. The storm intensified still further and by the morning of the 14th it became severe and was centred within half a degree of Lat. 10½°N., Long. 82°E. Under its influence widespread light to moderate rain had occurred in Ceylon with a heavy fall of 4″ at Trincomalee and rain had also extended into southeast Madras.

Moving very slowly in the same direction, the storm was centred about 150 miles to the sotheast of Cuddalore at 14 hours. Winds along the Coromandal coast had strengthened with the approach of the storm. Madras began to experience squally weather after 14 hours as will be seen from the following report of the Port Officer, Madras.

Station.	Date.	Remarks.
Madras	14th December 1933	The weather was squally and sky overcast, light drizzle at intervals between 2-41 and 6-10 A.M. Rain with squalls from the north commenced at intervals between 11-15 A.M. and 11-18 P.M. (The highest velocity of wind was 50 miles per hour at 9-30 P.M. direction NNE) The weather was getting worse. The sky was heavily overcast, with hard squalls from the north. The storm haze increased. The sea rose to a tremendous state. The barometer dropped ·04″ in 24 hours.
	15th December 1933	On the 15th, the weather became still worse with heavy rain and squalls from northeast at intervals throughout the day and night. Highest wind velocity was 55 miles per hour at 1-55 P.M. direction ENE. The barometer dropped 0·11″ in 24 hours.
	16th December 1933	The weather was squally and sky overcast in the early part of the forenoon, the wind changed its direction to south at 8 A.M. The weather moderated gradually by noon.

Extracts from the logs of the *S. S. Birk, Erinpura, Favorit* and *Vinistra* which are given below give an idea about the severity of the storm :—

Date.	Steamer.	Hour.	Position.		Wind.		Weather.	Sea.	Swell.
			Lat. N.	Long. E.	Dir.	Force.			
			° ′	° ′					
12th December	S. S. Birk	04-00	8 52	85 18	N	9	c. r. q.	Very high.	
		08-00	8 54	85 18	NNW	10	c. r. q.	Precipitous.	
		Noon	8 55	85 19	WNW	11	c. r. q.	Precipitous.	
		16-00	9 06	85 33	WNW	11	c. r. q.	Precipitous.	
		20-00	9 17	85 47	SW	10	c. r. q..	Precipitous.	
		Midnight	9 28	86 01	SSE	10	c. r. q.	Precipitous.	
13th		04-00	9 39	86 15	S	9	c. r. q.	Precipitous.	
		08-00	9 50	86 29	SSE	8—9	c. r. q.	Precipitous.	
		Noon	10 03	86 43	SSE	8	c. r. q.	Precipitous.	
		16-00	10 23	87 01	SE	9	c. r. q.	Precipitous.	
		20-00	10 43	87 19	ESE	8	c. r. q.	Very high.	
		Midnight	11 03	87 37	ESE	8	c. r. q.	Very high.	
14th		04-00	11 23	87 55	ESE	6	c. r. q.	Very high.	
		08-00	11 43	88 13	SE	8	c. r. q.	Very high.	
		Noon	12 03	88 31	SE	8	c. r. q.	Very high.	
		16-00	12 17	89 0	SE	8	c. r. q.	Very high.	
14th	S. S. Erinpura	16-00	13 18	80 40	N	7	o. r. q.	High	Heavy.
		20-00	13 32	81 03	N/E	8	o. q.	High	Heavy.
		Midnight	13 40	81 24	NE/N	6	o. q. r.	High	Heavy.

Date.	Steamer.	Hour.	Position.		Wind.		Weather	Sea.	Swell.
			Lat. N.	Long. E.	Dir.	Force.			
			° ′	° ′					
15th . .	S. S. Erinpura	04-00	13 25	80 50	NNE	6	o. d. q.	High . . .	Heavy.
		08-00	13 25	80 50	NE, E	8	o. r. q.	High . . .	Heavy.
		Noon	13 11	81 09	E/N	8	o. q.	High . . .	Heavy.
		16-00	13 38	81 07	E	6	o r. q.	High . . .	Heavy.
		20-00	13 50	81 25	E	5	o	Very rough.	

Remarks of *S. S. Erinpura*.—14th December 1933. 4 P.M. heavy, rain-squall, visibility very poor. 5 P.M., vessel labouring heavily. Frequent heavy rainsqualls throughout watch. Continuous drizzle with frequent severe squalls. Visibility generally poor 00-20 hrs. of 15th December 1933. Weather moderating. Visibility poor. Frequent heavy squalls accompanied by heavy rain from NNE to E. 5 A.M., wind increasing in force with violent rainsqualls. Torrential rain. 8 A.M. sky clearing slightly. Visibility poor. Frequent heavy squalls. Passing heavy rainshowers. 8 P.M., weather improving, mainly overcast, frequent heavy rainsqualls. Visibility good.

Date.	Steamer.	Hour.	Position.				Wind.		Weather.	Sea.
			Lat.		Long.		Dir.	Force.		
			°	′	°	′				
15th December .	"Favorit" . . .	04-00	13	09	93	06	ESE	5—4	o. r.	Very rough.
		08-00	13	03	91	30	ESE	5	c. q. p.	Very rough.
		Noon	12	57	91	00	ESE	7	q. r.	Very high.
		16-00	12	56	90	32	ESE	6—8	q. r.	Very high.
		20-00	12	54	90	04	ESE	6—10	q. r.	Precipitous.
		Midnight	12	53	89	36	ESE	6—10	q. r.	Precipitous.
16th . .		04-00	12	51	89	08	SE	7—10	q. r.	Precipitous.
		08-00	12	49	88	39	SE	7—10	q. r.	Precipitous.
		Noon	12	48	88	14	SE	7—10	q. r.	Precipitous.
		16-00	12	43	88	04	SE	7—10	q. r.	Precipitous.
		20-00	12	38	87	53	SE	7—10	q. r.	Precipitous.
		Midnight	12	33	87	42	SE	9	o. q.	Precipitous.

Date.	Steamer.	Hour.	Position.		Wind.		Weather.	Sea.	Swell.
			Lat. N.	Long. E.	Dir.	Force.			
			° ′	° ′					
14th December .	S. S. Vinistra . .	04-00	..	..	NNE	9	o. r. q.	High.	
		08-00	..	..	NNE	9	o. r. q.	Very high.	
		Noon	14 18	81 43	NNE	7—8	o. r. q.	Very high.	
		16-00	14 22	81 54	NE	7—8	o. r. q.	Very high.	
		20-00	14 27	82 05	NE	9	o. r. q.	Very high.	
		Midnight	14 31	82 16	NE	9	o. r. q.	Very high.	
15th . .		04-00	14 36	82 27	NE	9	o	Very high.	
		08-00	14 40	82 39	NE	8	o	Very high.	
		Noon	14 45	82 51	NE	8	o. r. q.	High.	
		16-00	15 08	83 12	NE	6	o. r. q.	High.	

At 23 hours the severe storm was centred about 100 miles to the southeast of Cuddalore. It then took a westerly course and was centred at 8 hours of the 15th about 40 miles east-southeast of Cuddalore. At this stage a pressure departure of the order of —·500 existed near the centre of the storm.

The following weather remarks from the Port Officers of Negapatam, Porto Novo and Cuddalore are very interesting :—

Station.	Date.	Remarks.
Negapatam . .	....	"During the approach of the cyclonic storm between the 12th and 15th December 1933, the Port experienced from 2 hours on 15th December 1933 heavy squalls and continuous rain the wind coming first from north-west with high and confused sea and heavy swell from northeast, the wind backing to west and later west-southwest until 14 hours and then backing to southwest and south when the storm crossed the coast north of the Port.
Porto Novo . .	15th December .	The weather was cyclonic from 14th midnight and lasted till the midnight of the 15th with rough sea and occasional heavy showers of rain. Telegraphic communication ceased from the noon of 15th December 1933.
Cuddalore . .	15th December .	A severe cyclonic storm of great intensity passed south of the Port of Cuddalore on the 15th December 1933 the centre of the cyclone crossing the coast at Porto Novo about 6 P.M. on that date. It has caused widespread damage. At its height it caused a six foot (above M. H. W. Springs) storm wave to sweep the coast in its vicinity. The wind held steady north, force 6, on the 14th and at 6 A.M. on the 15th was NNE force 7. At 10 A.M. (Bar. 29·80) wind was NE force 8, with fierce squalls of force 10. It remained steady at NE gradually increasing until 2 P.M. It was blowing steady at force 10 with bar. 29·35. The rainfall was inconsiderable as the strength of the wind blew it into fine particles like sleet. At 4 P.M. the barometer had fallen to 29·12 and between 5 and 6 P.M. was 29·00 and the wind had veered to the east, force 11, with frequent terrific squalls rising to force 12. This easterly wind blowing direct from the sea caused a sudden rise of water in an hour of about 6 feet above high water springs inundating the whole of the lower ground on the sea coast and causing tremendous damage. The rivers Gadilam, Uppanar and Paravanar resembled a rough sea. The height of the water may be gauged by the fact that it was within one and a half feet of the trusses of the boat-house roof and lapping the verandah of the office. The wind shifted to ESE Bar. 29·15 about 8 P.M. still blowing at force 11 with frequent squalls of force 12. At 11 P.M. wind was southeast, force 11, but easing rapidly. The storm wave receded as rapidly as it *rose till* by midnight it had more or less completely receded. At 6 A.M. on the 16th the wind was south, force 6, at 8 A.M. SSW, force 5, at 10 A.M. SW, force 5. It then backed to south, force 4, about noon, gradually backing to SE and moderating all the *time*. Heavy rain fell during the night of the 16th and there is now high flood in both the rivers Paravanar and Gadilam."

Moving in a westnorthwesterly direction, the storm crossed the south Coromandal coast slightly to the south of Cuddalore on the evening of the 15th. From the report of the Cuddalore Port Officer given above as well as of the observer there, it appears that the pressure deficiency near the centre of the cyclone at the time of its passage inland was at least 1″. Thereafter it weakened and lay as a depression over southeast Madras on the 16th. The depression filled up there on the next day, but induced unsettled conditions in the southeast Arabian Sea off Kanara. These unsettled conditions moved slowly northwards and became unimportant off the Konkan on the 20th.

The disturbance caused widespread rain in southeast Madras and Mysore between the 14th and 16th, rainfall being specially heavy in the Nellore, Madras, Chingleput and Arcot districts. With the northward movement of the unsettled conditions off the west coast, rainfall also extended into Kanara, the Konkan, the Deccan and in and near the central parts of the country. According to newspaper reports, heavy rain and strong winds in connection with this cyclone caused severe floods resulting in considerable damage to telegraphs and railway lines as well as to crops and property in the Madras, Chingleput and Arcot districts. It is reported that some lives were also lost and a train was thrown off the rails near Cuddalore by strong winds. The rain in and to the north of the Peninsula also appears to have caused damage to standing crops there.

The noteworthy falls of 5″ and over during the course of the disturbance are mentioned below :—

Stations.	16th.	17th.	18th.
	″	″	″
Iskapalle	..	5	6
Gudur	..	5	..
Rapur	5	..	..
Venkatagiri	..	5	..
Sulurpet	6	..	..
Tada	5	5	..
Madras	6	6	..
Attipet	6	7	..
Ponneri	8	8	..
Sattiavedu	8	..	..
Tiruvellore	8	5	..
Conjeevaram	5	..	..
Sriperumpudur	5	..	..
Poonamalle	7	..	..
Saidapet	6	6	..
Chingleput	..	6	..
Uttiramerur	..	5	..
Tiruttani	6	..	..
Puttur	5	..	..

Stations.	16th.	17th.	18th.
	"	"	"
Tirupati	7	..	..
Tsadam	5	..	..
Palliput	7	..	..
Arkonam	6	..	..
Vellore	5	..	..
Vanur	..	6	..
Villupuram	..	6	..
Panruti	..	9	..
Chidambaram	6	..	..
Mannargudi	10	..	..
Srimushnam	8	6	..
Tittagudi	6	..	..

Stations.	16th.	17th.	18th.
	"	"	"
Vriddachalam	5	..	..
Kallakurichi	6	..	.
Shiyali	9	..	..
Neidavasal	9	..	..
Tranquebar	15	..	..
Mayavaram	5	..	..
Kumbakonam	5	..	..
Ariyalur	13	..	..
Jayankonda Cholapuram	9	..	..
Pudukottai	..	8	..
Hosdrug	..	..	5
Kasaragad	..	..	6

WESTERN DISTURBANCES.

The following is a list of the western disturbances which affected the weather in northern India during the year with the dates of which they did so and brief notes on the precipitation that they produced :—

Serial No.	Date.	Remarks.
	January.	
1	1—3 . .	Local falls of rain or snow in Kashmir from 1st to 3rd and in Assam on the 3rd.
2	4—6 . .	Light local falls of rain or snow in Kashmir on the 5th and 6th.
3	9—12 . .	Passing drizzles along the frontier and in Kashmir on the 10th and local falls of rain or snow in Kashmir on the 11th and 12th.
4	15—17 . .	A few falls of rain or snow in Kashmir on the 15th and along the frontier and the western Himalayas on the 16th.
5	17—21 . .	General rain or snow along the frontier, the Punjab hills and Kashmir and local falls of rain in the plains of the east and north Punjab on the 17th. Widespread rain or snow also occurred in the North-West Frontier Province, Kashmir and the adjoining Punjab hills on the 18th, local falls in Kashmir on the 19th and general rain in Chota Nagpur on the 21st with a few falls in Bihar, Bengal and Assam on the same date.
6	20—25 . .	Local rain or snow in Baluchistan and Kashmir on the 20th and 21st; widespread rain or snow along the western Himalayas, local rain in the United Provinces and Assam and general rain in Chota Nagpur and adjacent districts on the 22nd; widespread rain fell from the United Provinces to Assam on the 23rd and in the region extending from the east Central Provinces to west Bengal as well as in north Assam on the 24th. On the next day rainfall was practically confined to the coast line from Vizagapatam to Saugor Island.
7	26th January—2nd February.	Light local falls of rain or snow in north Baluchistan on the 26th and in the North-West Frontier Province and Kashmir from the 29th to 31st. Light falls of rain or snow in Kashmir on the 1st and in northeast Assam on the next two days.
	February.	
8	4—8 . .	Scattered light precipitation in Kashmir on the 5th; a few light showers in Assam on the 6th and 7th and in Bengal on the latter date.
9	7—13 . .	Light local falls from Baluchistan to Kashmir from 8th to 10th and in Baluchistan alone on the 7th. Widespread rain in the western Himalayas between the 10th and 12th. Thunderstorm rain was widespread in the United Provinces and northeast India on the 12th, while on the 13th there was widespread rain from Bihar to Assam.
10	13—21 . .	Widespread rain fell in Baluchistan on the 13th and local rain or snow in Baluchistan and the north Punjab on the 14th. Local thundershowers occurred from the east Central Provinces to southwest Bengal between the 16th and 20th, in Assam on the 17th and 18th and in the west Central Provinces on the 19th and 20th.
11	18—22 . .	Local rain in northeast Baluchistan on the 19th and 20th, in the Punjab-Kumaon hills on the 21st and in northeast Assam on the 22nd.
12	20—26 . .	General rain in Baluchistan, the west Central Provinces and north Hyderabad on the 22nd; general rain or snow over the western Himalayas and adjacent plains and extensive thunderstorm rain over the central parts of the country from the 23rd to 26th; extensive thunderstorm rain also occurred in the plains of northwest India on the 23rd, in the United Provinces on the 24th and 25th and in Bihar and Orissa on the 24th.

Serial No.	Date.	Remarks.
13	28th February—3rd March.	A few light falls of rain in Baluchistan on the 1st and 2nd.
	March.	
14	4—10 . .	Widespread rain or snow in Kashmir and the adjoining Punjab hills with scattered falls of rain along the northwest frontier from the 5th to 8th, extensive rain in the plains of the Punjab on the 7th and a few falls in Assam on the 9th and 10th.
15	11—12 . .	A few light falls of rain or snow in Kashmir on the 12th.
16	14—19 . .	Local rain in Baluchistan on the 16th and widespread dust and thunderstorms from Baluchistan to the Punjab, with general rain along the frontier and a few falls in upper Sind, the southwest Punjab and the Punjab hills on the 17th; general rain or snow also occurred in Kashmir with widspread thunderstorm rain in the east and north Punjab and the North-West Frontier Province on the 18th. Scattered thunderstorms occurred in and near the Kumaon hills on the 18th and 19th.
17	19—21 . .	Local rain or snow in Kashmir with a few falls in the North-West Frontier Province and the Punjab-Kumaon hills on the 20th and 21st.
18	22—24 . .	Light local showers along the frontier with a few falls of rain in the Punjab hills on the 22nd, scattered thunderstorms and local rain in northwest India on the 23rd and a general extension of thunderstorm rain in the east and north Punjab and the west United Provinces on the next day; local rain also occurred in the North-West Frontier Province, Kashmir and east Central India with a few falls in the southwest Punjab, east Rajputana, Gujarat and west Central India on the 24th and in the western Himalayas on the 25th.
19	27—30 . .	Scattered duststorms or thunderstorm rain or snow along the northwest frontier, Baluchistan and Kashmir between the 28th and 30th.
20	31 . . .	A few falls of rain along the north-west frontier on the 31st.
	April.	
21	1 . . .	A few falls of rain in Kashmir.
22	1—6 . .	Widespread rain in Baluchistan, the North-West Frontier Province, Kashmir and the Punjab hills on the 3rd and 4th, in the western Himalays on the 5th and in Assam on the 5th and 6th.
23	7—8 . .	Local rain in Kashmir on the 8th.
24	9—11 . .	Widespread rain in northeast Baluchistan on the 9th and in the western Himalayas and the adjoining plains on the 10th and 11th.
25	12—14 . .	Widespread rain from frontier to Assam on the 12th and 13th and in northeast India on the 11th and 14th.
26	14—16 . .	Light local rain mainly in the hills of the frontier and Kashmir.
27	18—22 . .	Precipitation occurred mainly on the hills in northwest India and was widespread in the east United Provinces and north-east India.
28	24—26 . .	Local showers in Kashmir and the adjoining districts between 24th and 26th.
29	27—30 . .	Fairly widespread rain associated with duststorms or thunderstorms over the greater part of northwest India, the United Provinces and the central parts of the country on the 29th and 30th.
	May.	
30	1—4 . .	Fairly widespread thunderstorm rain in the east and north Punjab and the surrounding hills with scattered falls over the rest of northwest India between the 1st and 4th; widespread thunderstorms also occurred during this period in the central parts of the country.
31	6—11 . .	Widespread thunderstorms over northern India and the central parts of the country with locally heavy falls of rain in north-east India.
32	10—16 . .	Widespread rain in the North-West Frontier Province and Kashmir with local falls in north Baluchistan and the plains of the east and north Punjab, the west United Provinces and east Rajputana. Rainfall also occurred over a wide area in north-east India between the 14th and 17th.
33	17—20 . .	Local rain in the North-West Frontier Province on the 17th and 19th and general rain in Assam on the 20th.
34	27—30 . .	A few light showers in Baluchistan on the 28th and local duststorms in the North-West Frontier Province and thunder-showers in the Kumaon hills on the 30th.
	June.	
35	4—6 . .	Scattered duststorms in the northwest frontier on the 4th, light thundershowers in Kashmir on the 4th and 5th, scattered dust or thunderstorms in the Punjab and the United Provinces on the 5th and a few thundershowers along the western Himalayas on the 6th.
	July *August* *September*	No well-defined western disturbances.
	October.	
36	12—14 . .	Widespread rain in the North-West Frontier Province, Kashmir and the Punjab hills between the 12th and 14th.
37	25—27 . .	A few falls in Kashmir on the 25th.
	November.	
38	12—14 . .	No precipitation.
39	16—21 . .	A few light falls of rain in Baluchistan on the 18th, along the northwest frontier on the 19th and in Kashmir from the 19th to 21st.

Serial No.	Date.	Remarks.
	November.	
40	25—27 . .	A few falls in Baluchistan on the 25th and nearly general rain in the east and north Punjab with local falls in the North-West Frontier Province and Kashmir on the 26th.
41	28—30 . .	A few light showers of rain or snow in Kashmir on the 28th and 29th.
42	30th November—4th December.	A few light showers along the northwest frontier on the 2nd and general rain in north Baluchistan and local rain in the North-West Frontier Province and the southwest Punjab on the next day.
	December.	
43	5—8 . .	A few light showers in Kashmir on the 7th and in the North-West Frontier Province on the 5th and 7th.
44	10—12 . .	Scattered showers in and near the Punjab Kumaon hills on the 11th and a few falls in Assam on the 12th.
45	14—15 . .	No precipitation.
46	18—20 . .	Light showers in north Baluchistan on the 19th.
47	22—25 . .	A few light showers in and near Kashmir on the 23rd and 25th.
48	27—30 . .	A few falls of rain or snow in Kashmir on the 29th.

LOCAL STORMS.

Of the local storms eported in the newspapers, the following are noteworthy :—

January 7th.—A hailstorm in the Thakurgaon sub-division (Dinajpur district) caused havoc to the standing crops especially sugar-cane and paddy along its track.

March 2nd week.—A hailstorm caused considerable damage to crops in several districts in the Central Provinces.

March 12th.—A storm of great intensity broke out at Allahabad during the night. One of the planes in which the officers of the Houston-Everest expedition flew to India broke loose its moorings at Bamrauli Aerodrome and was completely wrecked.

March 24th.—During a hailstorm at Abbotabad, lightning struck a barrack building causing serious injuries to a number of Gurkha soldiers. Crops and property in Hazara area were damaged owing to continuous rain and hailstorms.

March 27th.—A severe storm passed over Comilla in the evening. Many houses were blown down and trees uprooted. No loss of life was reported.

April 1st.—A severe duststorm accompanied by a violent wind occurred at Dhubri, causing considerable damage to property. The wind is reported also to have damaged the crops, mangoes being the hardest hit.

April 7th.—Considerable damage was caused by a severe storm which passed over Tiruppur. Heavy rain flooded the streets and the electric supply failed.

April 8th.—A severe storm passed over Feni (Chittagong district) in the evening. Many houses were demolished, trees uprooted and considerable damage caused. Some persons were reported to have been injured but no loss of life was reported.

April 9th.—A country craft "*Ratnagiri*" loaded with tiles, a tindal and a crew of five encountered a heavy storm off Kanara coast and sank with the cargo. The crew were thrown out but were picked up by the crew of "*Manamadad*" and brought down to Bombay.

April 2nd week.—A severe storm passed over Noakhali town and suburbs blowing away the roofs of many houses and pulling down several houses to the ground. The storm was followed by heavy rain.

April 13th.—A storm passed over Bengal, particularly its eastern parts, on the 13th afternoon. It caused some loss of life and great damage to property and plantations. Communications were dislocated and trains held up. Almost all trains were very late in reaching the Sealdah terminus at Calcutta, some being detained over 4 hours on the way. Ranaghat about 48 miles to the north of Calcutta was perhaps the worst sufferer. Upto 14th afternoon telegraphic communications were suspended. It was reported that five persons were killed in a house crash at Ranaghat. Greatest havoc was wrought round Pairadanga, the station next to Ranaghat.

April middle.—A severe storm swept over the Kathiawar coast causing considerable damage to shipping. A vessel laden with timber from Malabar experienced a severe gale on its return journey to Mahuva, a Kathiawar port, with the result that its cargo had to be jettisoned off Kotda about 26 miles from Mahuva while another ship carrying a crago of cotton bales encountered a similar mishap off Kotda and was lost at sea. A third vessel which left Mahuva was reported to be missing.

A severe hailstorm occurred at Bara, a village near Tonk. Crops were seriously damaged and big-sized hail-stones struck many labourers causing injuries.

A gale swept over Suvasra Mandi in Mandasur district caused considerable loss to property estimated at about Rs. 50,000. The roofs of many houses were blown away and it is reported that the railway time-keeper was carried away by the gale and thrown in a gutter some 25 feet away.

April 18th.—A hailstorm accompanied by a hurricane was experienced at Mymensingh at about 10 P.M. The wind caused havoc to the Exhibition grounds, and the improvised auditorium made of corrugated iron sheets was blown away. Some persons were injured.

April 22nd.—A terrific gale blew over the villages Sudin and Muridpur within P. S. Adamdighi (Bogra district) on the night of the 22nd. The extent of damage done was considerable. Roofs of 80 houses were blown off, some of them to a distance of 3 miles, and a large number of trees were uprooted.

April 22nd and 23rd.—A fierce gale followed by a severe fall of hail swept over a large area of Purwa Tahsil in Unao district (U. P.) during the week end, resulting in 29 persons being killed and injuries to many others. Several trees were uprooted and huts and hamlets were wrecked. The gale extended over a zone of 16 miles long and 3 miles wide and caused great havoc over that region. Hundreds of cattle perished and the mango crops were completely ruined, while corn on the threshing floor in nearly all fields was either, scattered by the storm or damaged by saturation.

April 23rd.—A thunderstorm of great intensity passed over Deogarh (Santal Parganas, Bihar) between 2 and 3 A.M. accompanied by hail and torrential rain. Several houses were damaged and many trees uprooted.

April 30th.—As many as four boat disasters of a serious nature involving loss of several human lives took place in river Gorai as a result of a severe tornado passing over, Kushtia (Nadia district) and its surrounding villages on the evening of 30th and lasting for about one hour between 7 and 8 P.M.

May 1st week.—A severe thunderstorm passed over Tangail accompanied by a heavy shower of rain. Trees were uprooted and great damage was done to houses. The telegraphic communication was considerably interrupted and the electric wires were damaged with the result that the whole town was practically in darkness throughout the night.

May 5th.—A thunderstorm of great intensity burst over Faridpur and the adjoining villages in the evening. The storm continued for about an hour and was so severe that the roofs of many thatched houses were blown away, while several others were razed to the ground. A large number of trees were also uprooted.

May 9th.—A violent hailstorm which was attended with a heavy downpour passed Dinajpur in the evening. Many trees were uprooted and almost every house was affected. The mango, " bhadoi " and jute crops as well as vegetable plants were heavily damaged. One person died and several others sustained injuries.

May 10th.—A storm of great intensity was experienced at Murree during the night. Thunder with vivid flashes of lightning continued for over two hours, during which time heavy rain fell. Several land slides also occurred in many places.

May 14th.—A nor'wester passed over Calcutta on the evening of the 14th. It was accompanied by thunder and violent flashes of lightning which struck a dwelling house.

May 25th.—A severe storm swept over Jubbulpore in the evening of the 25th. The violence was so great that hundreds of trees were uprooted, completely disorganising traffic and telegraph communication. The whole town was plunged into darkness owing to the failure of the electric supply. Several people are reported to have been injured and two were found dead. The severity of the storm was felt most near the Railway Station where the Railway quarters were considerably damaged. Part of the General Post Office roof was also blown away and a motor bus in Sadar Bazar was smashed by a falling tree.

May 29th.—A severe thunderstorm swept over Ratnagiri in the night, accompanied by a heavy downpour of rain. Gangway stairs of the Goa Mail Steamer *Rupavati* was smashed by the high waves. Boats carrying passengers were caught in the gale and reached the shores with great difficulty.

August 3rd.—Three persons were killed and many others injured as the result of a storm which swept over Cawnpore on the evening of the 3rd. Hundreds of trees were uprooted and numerous buildings seriously damaged. Electric and telephonic communications also failed for hours. Of the three victims two were swept off the Ganges bridge and drowned.

Kyaikto on the Pegu-Moulmein line was struck by a storm in the evening. There was no casualty but 11 houses were destroyed. This storm also caused havoc in several other places in Insein and Pegu districts. Thirty houses were destroyed and several persons were injured in Hlegu about 30 miles from Rangoon, while 25 houses were destroyed in Chinttygon a village near Mingaladon.

August 1st week.—Ganjam, a town about 8 miles from Mysore City, experienced a severe hailstorm resulting in serious loss both to property and standing crops. Roofs of huts and even of tiled houses were smashed. Following the storm there was a heavy downpour of rain accompanied by strong winds.

August 7th.—Considerable damage to houses and property was caused by a storm which passed over Lahore Cantonment uprooting trees, bringing down electric wires and even blowing the tiled roofs of several buildings. No loss of human life was reported, but a number of cattle was either killed or injured.

August 9th.—A huge banyan tree at Bazi Hat (Chittagong) was struck by lightning. The tree was rent asunder and the Imam of a mosque close by fainted owing to the shock.

August 11th.—At Thanatpui, 7 miles east of Pegu, near the jetty of the Pegu Sittang canal, a water spout was observed. A " Sampan " which was moored along the jetty was hurled 12 feet into the air and fell on the road nearby. A man who was in the " Sampan " saved his life by jumping into the water. A few houses and trees were blown down by strong winds which heralded the approach of the water spout.

August 2nd week.—A severe storm passed over several villages in Noakhali district causing serious damages to property. There was no loss of life.

September 9th.—A tornado accompanied by thunder passed over Lantara, Panthar, Tepri, Narina (Shahzadpur), Lakshipur, Pirerchar, Satlathi and Saratail on the banks of the river Hurasagar (in Belkuchi, Pabna district) in the small hours of the morning. It is reported that most of the houses at Pirerchar and Satlathi have been razed to the ground and that several boats sank at Lantara Panthar.

September 10th.—At about 10 P.M. on September 10th, a violent tornado burst is reported to have swept over a large

part of Brahmanbaria sub-division (Tipperah district) causing considerable damage. Several boats capsized.

September 18th.—A storm broke over Jenangyaung oil-field area (near Rangoon). Trees were uprooted and the roofs of huts along the river were blown off. A motor boat was carried away by a strong current while crossing a shallow part of the river and a Burman coolie was drowned.

October 5th.—A severe thunderstorm passed over Bombay City in the evening. The force of wind was so great that in some parts of the city trees were uprooted and window panes were smashed. Dense clouds of dust rose, temporarily blinding the pedestrians, and drivers of vehicles found great difficulty along the roads. The duststorm was closely followed by a heavy shower of rain lasting for nearly half an hour.

October 6th.—Two men were killed and 11 injured as a result of a storm which passed over Heho districts in Shan States and lasted for about a quarter of an hour. Considerable damage was done to property in a village named Kyaukphtap.

5 men of village Barkal in Chittagong district were struck by lightning. Four of them died simultaneously and the fifth was found unconscious.

October 13th.—A violent rainstorm swpet over Calcutta at noon. The street and alleys were under knee-deep water. Traffic in many parts of Calcutta was brought to a standstill and all sorts of normal business in the city was suspended for several hours.

WINDS OF FORCE NINE OR MORE IN INDIAN SEAS.

Excluding dates of storms and depressions, a description of which has been given above, winds of force nine or more were recorded on ships in the Indian seas during the year 1933 on the following occasions :—

Date.	Name of ship.	Approximate Position.			
		Lat. N.		Long. E.	
		°	′	°	′
9th May	"Sikh"	11	00	75	00
16th May	"City of Swansea"	17	17	67	68
16th and 17th May	"Bhutan"	18	17	69	68
11th June	"Talma"	10	08	96	00
19th June	"Gairsoppa"	11	00	67	00
21st June	"Taiwar"	15	05	89	00
21st July	"M.V. Jenny"	16	00	61	00
1st to 4th August	"Nurjehan"	18	17	65	60
2nd to 4th August	"Contractor"	11	10	53	58
8th and 9th August	"Marienfels"	12	12	54	57
14th and 15th August	"Pasha"	20	21	69	68
22nd November	"Badarpur"	10	05	87	02
7th December	"Winkfield"	12	00	84	00

MGIPC—M—VIII-3-170—13-3-35—160.

Reg. No. 3500 E/24.

------- Depression ——— Storm ——— Severe Storm.

Reg. No. 3390 E/24.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1933

ANNUAL SUMMARY

PART D.

SEISMIC RECORDS.

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Published by Authority of the Government of India

UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.,

Director General of Observatories.

PUBLISHED BY MANAGER OF PUBLICATIONS, DELHI
PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, NEW DELHI
1935

Price Rs. 3 As. 14 or 6s. 6d.

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Insurance Publicity Co., Ltd., Lahore.
International Book Service, Poona 4.
Jaina & Bros., Mori Gate, Delhi, Messrs. J. M.
James Murray & Co., 12, Govt. Place, Calcutta (for Meteorological publications only).
Kali Charan & Co., Municipal Market, Calcutta.
Kamala Book Depot, 15, College Square, Calcutta.
Kamala Book Stores, Bankipore, Patna.
Karnataka Publishing House, Bangalore City.
Keale & Co., Karachi.
Krishnaswami & Co., Teppakulam P. O., Trichinopoly Fort, Messrs. S.
Lahiri & Co., Calcutta, Messrs. S. K.
Law Printing House, 11, Mount Road, Madras.
Law Publishing Co., Mylapore, Madras.
Lawrence and Mayo, Ltd., Bombay (for Meteorological publications only).
Local Self-Govt. Institute, Bombay.
London Book Co. (India), Arbab Road, Peshawar, Murree, Nowshera, Rawalpindi.
London Book Depot, B. I. Bazar Bareilly, U. P.
Malhotra & Co., Quetta, Messrs. U. P.
Mohanlal Dossabhai Shah, Rajkot.
Nandkishore & Bros., Chowk, Benares City.
Nateson & Co., Publishers, George Town, Madras, Messrs. G. A.
New Book Co., "Kitab Mahal", 192, Hornby, Road, Bombay.
Newman & Co., Ltd., Calcutta, Messrs. W.
North India Christian Tract and Book Society, 18, Clive Road, Allahabad.
Oriental Book Supplying Agency, 15, Sukhrawar, Poona City.
Oxford Book and Stationery Company, Delhi, Lahore, Simla, Meerut and Calcutta.
Parikh & Co., Baroda, Messrs. B.
Pioneer Book Supply Co., 20, Shib Narayan Das Lane, Calcutta and 219, Cloth Market, Delhi.
Popular Book Depot, Grant Road, Bombay.
Punjab Religious Book Society, Lahore.
Punjab Sanskrit Book Depot, Saidmitha Street, Lahore.
Raghunath Prasad & Sons, Patna City.
Rama Krishna & Sons, Booksellers, Anarkali, Lahore.
Ram Krishna Bros., Opposite Bishrambag, Poona City
Ram Narain Lal, Katra, Allahabad.
Ramesh Book Depot and Stationery Mart, Kashmere Gate, Delhi.
Ray & Sons, 43, K. & L. Edwardes Road, Rawalpindi, Murree and Peshawar, Messrs. J.
Ray Chowdhury & Co., 68/5, Ashutosh Mukhorjee Road, Calcutta.
Rochouse & Sons, Madras.
Roy Chowdhury & Co., 11, College Square, Calcutta, Messrs. N. M.
Sampson William & Co., 127-B, The Mall, Cawnpur.
Sarcar & Sons, 15, College Square, Calcutta, Messrs. M. C.
Sarkar & Co., 2, Shama Charan De Street, Calcutta, Messrs. P. C.
Scientific Publishing Co., 9, Taltola Lane, Calcutta.
Seshachalam & Co., Masulipatam, Messrs. M.
Shivji & Co., P. O. Chaulieganj, Cuttack.
Shri Shankar Karnataka Pustaka Bhandara, Malamuddi, Dharwar.
S. P. Bookstall, 21, Budhwar, Poona.
Standard Bookstall, Karachi
Standard Bookstall, Quetta.
Standard Book Depot, Lahore, Dalhousie and Delhi.
Standard Law Book Society, 5½ Hastings Street, Calcutta.
Standard Literature Company, Ltd., Calcutta.
Students' Popular Depot, Kacheri Road, Lahore.
Surat and District Trading Society, Surat.
Taraporevala Sons & Co., Bombay, Messrs. D. B.
Thacker & Co., Ltd., Bombay.
Thacker, Spink & Co., Ltd., Calcutta and Simla.
Tripathi & Co., Booksellers, Princes Street, Kalbadevi Road, Bombay, Messrs. N. M.
Union Stores, Indore City.
University Book Agency, Kacheri Road, Lahore.
Upper India Publishing House, Ltd., Literature Palace, Ammuddaula Park, Lucknow.
Varadachary & Co., Madras, Messrs. P.
Wheeler & Co., Allahabad, Calcutta and Bombay, Messrs. A. H.
Young Man & Co., Ajmer and Egerton Road, Delhi,

* Agent for publications on aviation only.

INDIA WEATHER REVIEW, 1933.

ANNUAL SUMMARY.

PART D.

SEISMIC RECORDS.

STATION—AGRA.

$\varphi = 27° 8' 15''$ N ; $\lambda = 78° 0' 45''$ E ; $h = 163$ metres. *Subsoil*—Indo-Gangetic Alluvium.

Apparatus.—One Omori-Ewing Horizontal Pendulum Seismograph giving A_N (Mass 50 Kg.).
One Milne-Shaw Seismograph giving A_E. (Damping ratio 20 : 1).

TABLE D 1.

	V	T	ε	Remarks.
Omori—A_N	28·2	29·4	1	
Milne-Shaw—A_E	783	12	...	From 1st January 1933 to 5th January 1933.
	736	12	..	From 6th January 1933 to 5th July 1933.
	714	12	...	From 6th July 1933 to 14th September 1933.
	633	12	...	From 15th September 1933 to 26th December 1933.
	614	12	...	Form 27th December 1933 to 31st December 1933.

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1933.		H. M. S.				
Jan. 1st	A_E P	9 2 9	...	...	...	Slight shock.
	S	9 6 17	...	...	...	
	F	10 25 49	...	...	...	
,, 3rd	A_E P	15 36 45	...	...	...	Do.
	S	15 44 20	...	...	...	
	Lc	15 56 8	...	...	...	
	M	16 2 9	13	...	4	
	F	16 42 20	...	...	...	
,, 9th	A_E P	2 4 23	...	...	...	Shock of great intensity.
	F	3 37 24	...	...	...	
,, 9th	A_N P	2 4 25	...	...	...	Do.
	Se	2 6 18	...	...	...	
,, 17th	A_E P	16 4 35	...	...	...	Slight shock.
	S	16 8 19	...	...	...	
	M	16 14 2	7	...	2	
	F	16 30 58	...	...	...	
,, 17th	A_E e	19 6 46	...	...	...	Do.
	M	19 23 27	16	...	4	
	F	20 12 6	...	...	...	
,, 17th	A_E e	22 21 24	...	...	...	Feeble shock.
	F	22 47 44	...	...	...	
,, 21st	A_E P	19 31 52	...	...	...	Shock of very great intensity.
	F	23 28 34	...	...	...	
1933.		H. M. S.				
Jan. 21st	A_N P	19 31 55	...	...	...	Shock of great intensity.
	S	19 40 24	...	...	...	
	Le	19 52 45	...	...	...	
,, 21st	A_N M	19 54 20	22	720	...	
	F	22 28 53	...	...	...	
,, 27th	A_E P	22 56 22	...	...	...	Feeble shock.
	M	23 6 32	15	...	3	
	F	Lost while changing chart.				
Feb. 3rd	A_E P	22 21 55	...	...	...	Slight shock.
	S	22 29 57	...	...	...	
	•L	22 42 48	...	...	...	
	F	23 48 23	...	...	...	
,, 13th	A_E P	2 53 58	...	...	...	Moderate shock.
	S	2 57 51?	...	...	...	
,, 13th	A_N P	2 53 59	...	...	...	Slight shock.
	S	2 57 57	...	...	...	
	F	3 36 59	...	...	...	
,, 16th	A_E e	9 24 41	...	...	...	Very feeble shock.
	F	10 3 42	...	...	...	
1933.		H. M. S.				
Feb. 21st	A_E P	19 7 20	...	...	...	Slight shock.
	S	19 10 57	...	...	...	
	L	19 12 56	...	...	...	
	F	20 6 57	...	...	...	
,, 21st	A_N eP	19 7 22	...	...	...	Feeble shock.
	F	19 28 35	...	...	...	
,, 23rd	A_E P	8 29 1	...	...	...	Moderate shock.
	eF	11 40 32	...	...	...	
,, 23rd	A_N eP	8 29 22	...	...	...	Do.
Mar. 2nd	A_E P	17 40 34	...	...	...	Shock of very great intensity.
	eF	23 34 55	...	...	...	
,, 2nd	A_N P	17 40 45	...	...	...	Do.
	S	17 48 36	...	...	...	
	L	Uncertain	...	...	...	
	M	?	?	>1010	...	Motion of recording pen restricted due to side-stops at intervals for about 25 minutes.
	F	22 26 13	...	...	...	

TABLE D 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1933.		H. M. S.				
Mar. 3rd	A_E P	9 22 20	...	...	...	Slight shock.
	Se	9 29 53	...	...	...	
	A_E					
,, 6th	P	13 8 11	...	...	...	Do.
	eF	14 10 3	...	...	...	
	A_N					
,, 6th	eP	13 8 3	...	...	...	Do.
	S	13 10 2	...	...	...	
	L	13 11 16	...	...	...	
	F	13 34 1	...	...	...	
	A_E					
,, 11th	P	14 31 55	...	...	...	Do.
	S	14 39 55	...	...	...	
	L	14 52 13	...	...	...	
	F	16 28 1	...	...	...	
	A_E					
,, 11th	P	19 41 26	...	...	...	Do.
	eS	19 48 22	...	...	...	
	F	21 13 46	...	...	...	
	A_E					
,, 17th	P	16 5 59	...	...	...	Shock of great intensity.
	S	16 14 34	...	...	...	
	L	16 28 35	...	...	...	
	F	16 58 16	...	...	...	
	A_N					
,, 17th	eP	16 6 1	...	...	...	Moderate shock.
	Se	16 14 58	...	...	...	
	A_E					
,, 17th	P	19 41 25	...	...	...	Do.
	S	19 48 33	...	...	...	
	L	19 58 44	...	...	...	
	Fe	21 40 37	...	...	...	
	A_N					
,, 17th	eP	19 41 32	...	...	...	Do.
	Se	19 48 44	...	...	...	
	M	20 4 9	20	29	...	
	eF	21 7 49	...	...	...	
	A_E					
,, 23rd	P	17 44 31	...	...	...	Slight shock.
	F	19 0 8	...	...	...	
	A_E					
,, 31st	P	22 3 56	...	...	...	Do.
	S	22 7 29	...	...	...	
	L	22 10 6	...	...	...	
	M	22 12 14	10	...	5	
	F	22 41 11	...	...	...	
	A_E					
Apr. 1st	P	16 8 31	...	...	...	Do.
	S	16 16 10	...	...	...	
	L	16 27 11	...	...	...	
	M	16 34 16	15	...	4	
	F	17 14 57	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1933.		H. M. S.				
Apr. 9th	A_E P	2 56 11	...	...	...	Moderate shock.
	S	3 3 57	...	...	...	
	L	3 15 58	...	...	...	
	A_N					
,, 9th	e	2 58 20	...	...	...	Slight shock.
	M	3 21 22	19	43	...	
	F	3 47 41	...	...	...	
	A_E					
,, 16th	P	19 27 23	...	...	...	Feeble shock.
	S	19 36 9	...	...	...	
	L(?)	19 51 38	...	...	...	
	Fe	20 54 56	...	...	...	
	A_N					
,, 19th	e	6 52 21	...	...	...	Moderate shock.
	Se	6 58 6	...	...	...	
	M	7 7 35	21	69	...	
	eF	8 18 20	...	...	...	
	A_E					
,, 23rd	P	6 5 39	...	...	...	Do.
	S	6 12 16	...	...	...	
	F	Mixed up with the next shock.				
	A_N					
,, 23rd	e	6 5 41	...	...	...	Do.
	S	6 12 10	...	...	...	
	L	6 19 40	...	...	...	
	M	6 23 40	19	59	...	
	F	6 57 38	...	...	...	
	A_E					
,, 23rd	Pe	7 23 16	...	...	...	Do.
	S	7 30 57	...	...	...	
	L	7 42 26	...	...	...	
	F	9 35 58	...	...	...	
	A_N					
,, 23rd	eP	7 23 16	...	...	...	Do.
	S	7 31 2	...	...	...	
	Le	7 42 11	...	...	...	
	A_E					
,, 27th	P	2 48 36	...	...	...	Shock of great intensity.
	S	2 58 52	...	...	...	
	Fe	6 26 4	...	...	...	
	A_N					
,, 27th	P	2 48 46	...	...	...	Do.
	S	2 58 55	...	...	...	
	M	3 31 45	19	225	...	
	F	5 19 35	...	...	...	
	A_E					
,, 27th	P	12 8 2	...	...	...	Slight shock.
	S	12 18 17	...	...	...	
	F	13 47 32	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1933.		H. M. S.				
May 1st	A_E Pe	20 1 8	...	...	...	Slight shock
	S	20 9 9	...	...	...	
	Le	20 21 33	...	...	...	
	M	20 28 54	16	...	4	
	F	21 30 11	...	...	...	
	A_E					
,, 11th	P	19 18 16	...	...	...	Do.
	eS	19 24 49	...	...	...	
	M	19 40 38	15	...	6	
	F	20 47 23	...	...	...	
	A_E					
,, 12th	P	16 14 48	...	...	...	Feeble shock.
	S	16 18 24	...	...	...	
	Fe	16 52 33	...	...	...	
	A_E					
,, 16th	P	1 18 8	...	...	...	Shock of great intensity
	S	1 22 49	...	...	...	
	Le	1 27 15	...	...	...	
	Fe	3 29 37	...	...	...	
	A_N					
,, 16th	e	1 18 44	...	...	...	Moderate shock.
	Se	1 22 42	...	...	...	
	M	1 33 51	20	96	...	
	F	2 15 7	...	...	...	
	A_E					
June 2nd	eP	7 47 9	...	...	...	Slight shock.
	Fe	8 54 36	...	...	...	
	A_E					
,, 3rd	P	17 17 32	...	...	...	Do.
	Fe	18 26 32	...	...	...	
	A_N					
,, 3rd	e	17 17 32	...	...	...	Feeble shock.
	Fe	17 57 48	...	...	...	
	A_E					
,, 6th	P	2 36 12	...	...	...	Slight shock
	S	2 42 10	...	...	...	
	Pe	3 55 26	...	...	...	
	A_N					
,, 6th	e	2 36 34	...	...	...	Feeble shock.
	eS	2 42 21	...	...	...	
	F	3 10 42	...	...	...	
	A_E					
,, 7th	P	11 50 28	...	...	...	Moderate shock.
	Fe	13 15 26	...	...	...	
	A_N					
,, 7th	Fe	11 50 37	...	...	...	Do.
	S	11 54 13	...	...	...	
	L	11 56 59	...	...	...	
	M	11 57 43	19	138	...	
	F	12 35 31	...	...	...	

TABLE D 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1933.		H. M. S.				
June 8th	P	18 20 16	...	...	...	Feeble shock.
	eF	19 33 6	...	...	...	
,, 13th	P	20 43 1	...	...	...	Slight shock.
	S	20 50 40	...	...	...	
	M	21 10 18	15	...	5	
	Fe	21 53 36	...	...	...	
,, 13th	P	22 42 32	...	...	...	Feeble shock.
	F	23 48 45	...	...	...	
,, 24th	Pe	22 2 31	...	...	...	Shock of very great intensity
,, 25th	eF	1 56 23	...	...	...	
,, 24th	P	22 2 40	...	...	...	Do.
	eS	22 8 52	...	...	...	
	M	?	?	>986		Motion of recording pen restricted due to side-stops at intervals for about 5 minutes.
	F	Lost while changing chart.				
July 3rd	P	15 13 21	...	...	...	Feeble shock.
	F	15 49 31	...	...	...	
,, 7th	P	7 33 51	...	...	...	Do.
	Fe	8 20 14	...	...	...	
,, 9th	eP	1 40 4	...	...	...	Moderate shock.
	S	1 48 6	...	...	...	
,, 9th	P	12 40 42	...	...	...	Do.
	S	12 48 51	...	...	...	
	eL	13 1 54	...	...	...	
	M	13 8 42	17	87	...	
	Fe	14 22 58	...	...	...	
,, 22nd	P	21 7 15	...	...	...	Do.
	S	21 17 23	...	...	...	
	F	Lost while changing chart.				
,, 22nd	eP	21 7 12	...	...	...	Do.
	Se	21 17 24	...	...	...	
	M	21 46 7	19	53	...	
	Fe	22 44 26	...	...	...	
Aug. 11th	P	8 58 14	...	...	...	Do.
	Fe	10 34 32	...	...	...	
1933.		H. M. S.				
Aug. 11th	Pe	8 58 24	...	...	...	Moderate Shock.
	S	9 1 44	...	...	...	
	L	9 3 55	...	...	...	
	Fe	9 31 58	...	...	...	
,, 12th	e	7 36 47	...	...	...	Very feeble shock.
	M	7 41 52(?)	11	...	3	
	F	8 2 33	...	...	...	
,, 13th	P	9 33 34	...	...	...	Slight shock.
	S	9 47 0	...	...	...	
	F	11 8 56	...	...	...	
,, 13th	Pe	9 33 41	...	...	...	Very feeble shock.
	Se	9 47 9	...	...	...	
	Fe	15 52 15	...	...	...	
,, 14th	P	22 20 40	...	...	...	Feeble shock.
	F	22 49 7	...	...	...	
,, 25th	P	7 55 26	...	...	...	Shock of very great intensity.
	F	Not determinable.				
,, 25th	P	7 55 29	...	...	...	Do.
	S	7 59 42	...	...	...	
	L	8 2 25	...	...	...	
	M	?	?	>1025		Motion of recording pen restricted due to side-stops for about 5 minutes.
	F	9 46 18	...	...	...	
,, 29th	eP	15 11 4	...	...	...	Very feeble shock.
	Fe	16 14 4	...	...	...	
Sept. 24th	P	15 31 35	...	...	...	Moderate shock.
	S	15 41 44	...	...	...	
	L	16 1 33	...	...	...	
	M	16 9 59	20	...	18	
	F	17 5 36	...	...	...	
,, 25th	P	18 54 41	...	...	...	Feeble shock.
	F	14 53 11	...	...	...	
,, 25th	P	18 54 34	...	...	...	Moderate shock.
	F	20 57 47	...	...	...	
,, 25th	Pe	18 54 36	...	...	...	Slight shock.
	F	19 46 47	...	...	...	
Sept. 30th	P	14 32 1	...	...	...	Slight shock.
	S	14 41 37	...	...	...	
	L	14 54 33	...	...	...	
	eF	16 6 22	...	...	...	
Oct. 2nd	P	15 49 12	...	...	...	Moderat shock.
	M	17 2 51	20	...	15	
	F	18 20 9	...	...	...	
,, 2nd	e	15 49 6	...	...	...	Slight shock.
	F	17 46 48	...	...	...	
,, 5th	P	13 34 12	...	...	...	Moderate shock.
	Fe	15 16 31	...	...	...	
,, 5th	P	13 34 17	...	...	...	Do.
	S	13 37 49	...	...	...	
	eL	13 39 42	...	...	...	
	M	13 41 10	22	381	...	
	F	14 10 56	...	...	...	
,, 14th	eP	22 31 28	...	...	...	Slight shock.
	Se	22 41 49	...	...	...	
	Le	23 1 59	...	...	...	
	Fe	23 42 26	...	...	...	
,, 16th	P	4 37 27	...	...	...	Dd.
	F	5 5 35	...	...	...	
,, 21st	e	2 53 54	...	...	...	Feeble shock.
	Se	3 1 28	...	...	...	
	L	3 14 20	...	...	...	
	Fe	3 57 33	...	...	...	
,, 22nd	e	14 6 22	...	...	...	Slight shock
	F	14 30 18	...	...	...	
Nov. 2nd	P	12 38 57	...	...	...	Moderate shock.
	S	12 49 2	...	...	...	
	M	13 17 29	20	...	15	
	eF	15 1 58	...	...	...	
,, 5th	P	20 31 22	...	...	...	Slight shock.
	S	20 35 0	...	...	...	
	Le	20 37 12	...	...	...	
	Fe	21 24 34	...	...	...	
,, 7th	e	11 16 20	...	...	...	Tremors.
	Fe	11 26 54	...	...	...	

TABLE D 1—*concld.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1933.		H. M. S.				
Nov. 19th	P	9 12 31	...	...	...	Slight shock.
	S	9 15 55	...	...	...	
	eL	9 18 48	...	...	...	
	M	9 21 36	10	...	4	
	F	9 45 25	...	...	...	
,, 20th	P	23 33 31	...	...	...	Shock of great intensity.
,, 21st	F	3 8 29	...	...	...	
,, 20th	P	23 33 33	...	...	...	Do.
	S	23 43 22	...	...	...	
,, 21st	L	0 1 53	...	...	...	
	M	0 5 2	28	648	...	
	F	Lost while changing chart.				
,, 22nd	Pe	12 54 15	...	...	...	Moderate shock.
	S	13 4 4	...	...	...	
	M	13 28 42	...	...	...	
,, 28th	P	11 13 46	...	...	...	Shock of great intensity.
	F	12 59 38	...	...	...	
1933.		H. M. S.				
Nov. 28th	eP	11 13 52	...	...	...	Shock of great intensity.
	S	11 17 27	...	...	...	
	L	11 19 35	...	...	...	
	M	11 21 22	20	696	...	
	eF	12 28 58	...	...	...	
,, 28th	e	16 11 35	...	...	...	Feeble shock.
	M	16 17 23	9	...	3	
	F	16 35 35	...	...	...	
Dec. 2nd	P	2 18 12	...	...	...	Slight shock.
	S	2 20 8	...	...	...	
	F	2 52 58	...	...	...	
,, 9th	P	7 54 45	...	...	...	Do.
	F	8 31 26	...	...	...	
,, 9th	eP	7 54 45	...	...	...	Feeble shock.
	S	7 56 50	...	...	...	
	Le	7 58 0	...	...	...	
1933.		H. M. S.				
Dec. 12th	P	5 26 6	...	...	...	Slight shock.
	S	5 29 49	...	...	...	
,, 12th	L	5 32 33	...	...	...	
	M	5 35 38	10	...	5	
	F	5 53 53	...	...	...	
,, 12th	P	14 23 17	...	...	...	Feeble shock.
	Fe	15 44 46	...	...	...	
,, 14th	P	18 56 18	...	...	...	Slight shock.
	S	19 0 6	...	...	...	
	L	19 2 56	...	...	...	
	F	19 36 28	...	...	...	
,, 14th	eP	18 56 6	...	...	...	Do.
	S	19 0 6	...	...	...	
,, 24th	P	10 57 34	...	...	...	Do.
	S	11 7 0	...	...	...	
	F	12 14 1	...	...	...	

Owing to irregular behaviour of the time-marking clock of the Seismographs, from July to November 1933, the values of the time of occurrence of the various phases for the shocks recorded during this period *may* be uncertain, the maximum discrepancy being estimated to be $\pm$ 20 seconds.

G. CHATTERJEE,

Meteorologist-in-charge, Upper Air Observatory, Agra.

STATION—COLABA, BOMBAY.

ϕ=18° 54′ N.; λ=72° 49′ E.; h=6 metres. *Subsoil*—Trap-rock.

Apparatus.—1. Milne-Shaw Seismograph (A_N—North-South Component).

2. Milne-Shaw Seismograph (A_E East-West Component).

(In the underground constant temperature room.)

TABLE D 2.

	Vm	T	ε
A_N	250	12 sec.	20 : 1
A_E	350	12 sec.	22 : 1

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks.
1933.		H. M. S.					
Jan. 1st	A_N P	9 2 11	...	...	...	9390	Slight. Epc :— Near Solomon Islands. L-waves poorly developed.
	S	9 12 39	...	...	...	...	
	M	Movements small.					
	F	11 3 0	...	...	...	...	
	A_E P	9 2 11	...	...	...	9390	Do.
,, 1st	S	9 12 39	...	...	...	...	
	M	Movements small.					
	F	11 9 0	...	...	...	...	
	A_N P	15 37 38	...	...	...	6890	Slight. Epc :— Japan, near 40° 24′ N., 144° E. (C.M.O., Japan.)
,, 3rd	S	15 46 9	...	...	...	...	
	M	16 8 46	13	4	...	...	
	F	16 47 0	...	...	...	...	
	A_E P	15 37 38	...	...	...	6890	Do.
,, 3rd	S	15 46 9	...	...	...	...	
	M	16 7 45	13	...	3	...	
	F	17 11 0	...	...	...	...	
	A_N P	1 35 33	...	...	...	7090	Slight. Epc :— Japan, near 25° 48′ N., 145° E. (C.M.O., Japan).
,, 4th	S	1 44 15	...	...	...	...	
	F	3 24 0	...	...	...	...	
	A_E P	1 35 33	...	...	...	7090	Do.
,, 4th	S	1 44 15	...	...	...	...	
	L	1 58 51	...	...	...	...	
	F	3 32 0	...	...	...	...	
	A_N P	4 12 44	...	...	...	8840	Slight.
,, 4th	S	4 22 48	...	...	...	...	
	SR1	4 29 15	...	...	...	...	
	F	5 36 0	...	...	...	...	
	A_E P	4 12 44	...	...	...	8840	Do.
,, 4th	S	4 22 48	...	...	...	...	
	M	4 52 13	18	...	6	...	
	F	5 33 0	...	...	...	...	
	A_N e	8 56 0	...	...	...	...	Tremors.
,, 4th	f	9 9 0	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks.
1933.		H. M. S.					
Jan. 4th	A_E e	8 56 0	...	...	...	...	Tremors.
	f	9 9 0	...	...	...	...	
	A_N e	1 33 0	...	...	...	...	Do.
,, 5th	f	2 3 0	...	...	...	...	
	A_E e	1 33 0	...	...	...	...	Do.
,, 5th	f	2 4 0	...	...	...	...	
	A_N e	19 33 0	...	...	...	...	Do.
,, 6th	f	20 19 0	...	...	...	...	
	A_E e	19 33 0	...	...	...	...	Do.
,, 6th	f	20 17 0	...	...	...	...	
	A_N P	4 17 16	...	...	...	7030	Moderate shock. Epc :— Japan, near 40° 18′ N., 144° E. (C.M.O. Japan).
,, 7th	S	4 25 53	...	...	...	...	
	L	4 39 5	...	...	...	...	
	M	4 47 33	15	14	...	...	
	F	6 38 0	...	...	...	...	
	A_E P	4 17 15	...	...	...	7030	Do.
,, 7th	S	4 25 54	...	...	...	...	
	L	4 39 5	...	...	...	...	
	M	4 47 54	15	...	12	...	
	F	7 13 0	...	...	...	...	
	A_N e	8 25 0	...	...	...	...	Tremors.
,, 7th	f	8 35 0	...	...	...	...	
	A_E e	8 25 0	...	...	...	...	Do.
,, 7th	f	8 35 0	...	...	...	...	
	A_E e	6 40 0	...	...	...	...	Do.
,, 8th	f	7 37 0	...	...	...	...	
	A_N e	6 40 0	...	...	...	...	Do.
,, 8th	f	7 35 0	...	...	...	...	
	A_E e	15 27 0	...	...	...	...	Do.
,, 8th	f	15 41 0	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks.
1933.		H. M. S.					
Jan. 8th	A_E e	15 27 0	...	...	...	...	Tremors.
	f	15 41 0	...	...	...	...	
	A_N P	2 5 37	...	...	...	1920	Moderate Epc :— North-west Frontier near 34° 30′ N., 72° 30′ E. Felt strongly at Drosh, Cherat, Peshawar and Rawalpindi.
,, 9th	S	2 8 49	...	...	...	...	
	L	2 10 49	...	...	...	...	
	M	2 13 49	9	38	...	...	
	F	3 54 0	...	...	...	...	
	A_E P	2 5 37	...	...	...	1920	Do.
,, 9th	S	2 8 49	...	...	...	...	
	L	2 10 49	...	...	...	...	
	M	2 11 12	8	...	31	...	
	F	3 55 0	...	...	...	...	
	A_N e	8 50 0	...	...	...	...	Tremors.
,, 9th	f	9 10 0	...	...	...	...	
	A_E e	8 49 0	...	...	...	...	Do.
,, 9th	f	9 8 0	...	...	...	...	
	A_N e	3 40 0	...	...	...	...	Do.
,, 10th	f	3 48 0	...	...	...	...	
	A_E e	3 40 0	...	...	...	...	Do.
,, 10th	f	3 49 0	...	...	...	...	
	A_N e	5 25 0	...	...	...	...	Do.
,, 14th	f	5 29 0	...	...	...	...	
	A_N e	18 14 3	...	...	...	...	Feeble.
,, 15th	i	18 23 29	...	...	...	...	
	F	19 23 0	...	...	...	...	
	A_E e	18 14 3	...	...	...	...	Do.
,, 15th	i	18 23 29	...	...	...	...	
	F	19 30 0	...	...	...	...	

TABLE D 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A N	Amplitude (μ) A E	Distance (Km.) △	Remarks.
1933.		H. M. S.					
Jan. 17th	A_N e	0 57 0	...	...	...	...	Tremors
	f	1 5 0	...	...	...	...	
	A_E e	0 57 0	...	...	...	...	Do.
	f	1 5 0	...	...	...	...	
,, 17th	A_N e	16 11 0	...	...	...	...	Do.
	f	16 35 0	...	...	...	...	
	A_E e	16 11 0	...	...	...	...	Do.
	f	16 35 0	...	...	...	...	
,, 17th	A_N P	18 57 17	...	...	...	5860	Slight.
	S	19 4 50	...	...	...	...	
	eL	19 16 14	...	...	...	...	
	M	19 18 6	17	5	...	...	
	F	20 22 0	...	...	...	...	
	A_E P	18 57 17	...	...	...	5860	Do.
	S	19 4 50	...	...	...	...	
	eL	19 16 14	...	...	...	...	
	M	19 18 41	15	...	2	...	
	F	20 24 0	...	...	...	...	
,, 17th	A_N e	22 20 43	...	...	...	...	Feeble.
	i	22 24 43	...	...	...	...	
	F	23 1 0	...	...	...	...	
,, 17th	A_E e	22 20 43	...	...	...	...	Do.
	i	22 24 43	...	...	...	...	
	F	23 1 0	...	...	...	...	
,, 18th	A_N e	18 44 0	...	...	...	...	Tremors.
	f	19 1 0	...	...	...	...	
,, 18th	A_E e	18 44 0	...	...	...	...	Do.
	f	19 4 0	...	...	...	...	
,, 20th	A_N P	12 16 7	...	...	...	1920	Slight. Epc. :— North-west Frontier, near that of the 9th January.
	S	12 19 19	...	...	...	...	
	F	12 41 0	...	...	...	...	
,, 20th	A_E P	12 16 7	...	...	...	1920	Do.
	S	12 19 19	...	...	...	...	
	F	12 42 0	...	...	...	...	
,, 21st	A_N e	16 30 0	...	...	...	...	Tremors.
	f	17 4 0	...	...	...	...	
,, 21st	A_E e	16 30 0	...	...	...	...	Do.
	f	17 8 0	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A N	Amplitude (μ) A E	Distance (Km.) △	Remarks.
1933.		H. M. S.					
Jan. 21st	A_N P	19 30 36	...	...	...	6160	Great. Epc. :— Indian Ocean, near 33°S., 58·5°E
	S	19 38 25	...	...	...	...	
	L	19 45 59	...	...	...	...	
	M	19 51 29	18	286	...	...	
	F	23 11 0	...	...	...	...	
,, 21st	A_E P	19 30 36	...	...	...	6160	Do.
	S	19 38 25	...	...	...	...	
	L	19 45 59	...	...	...	...	
	M	19 49 59	17	...	168	...	
	F	23 20 0	...	...	...	...	
,, 23rd	A_N e	0 15 0	...	...	...	...	Tremors.
	f	0 30 0	...	...	...	...	
,, 23rd	A_E e	0 15 0	...	...	...	...	Do.
	f	10 30 0	...	...	...	...	
,, 24th	A_N e	4 58 53	...	...	...	...	Very feeble near shock.
	i	4 59 28	...	...	...	...	
	F	5 15 0	...	...	...	...	
,, 24th	A_E e	4 58 53	...	...	...	...	Do.
	i	4 59 28	...	...	...	...	
	F	5 15 0	...	...	...	...	
,, 25th	A_N e	13 44 0	...	...	...	...	Tremors.
	f	14 3 0	...	...	...	...	
,, 25th	A_E e	13 44 0	...	...	...	...	Do.
	f	14 3 0	...	...	...	...	
,, 26th-27th.	A_N e	23 30 0	...	...	...	...	Slight near shock.
	i	23 31 50	...	...	...	...	
	F	0 2 0	...	...	...	...	
,, 26th-27th.	A_E e	23 30 0	...	...	...	...	Do.
	ss i	23 31 50	...	...	...	...	
	F	0 0 0	...	...	...	...	
,, 27th	A_N e	22 56 23	...	...	...	...	Very feeble, very distant.
	F	23 54 0	...	...	...	...	
,, 27th-28th.	A_E e	22 56 23	...	...	...	...	Do.
	F	0 3 0	...	...	...	...	
,, 29th	A_N e	18 23 0	...	...	...	...	Tremors.
	f	18 34 0	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A N	Amplitude (μ) A E	Distance (Km.) △	Remarks.
1933.		H. M. S.					
Jan 29th	A_E e	18 24 0	...	...	...	...	Tremors
	f	18 33 0	...	...	...	...	
,, 30th	A_N e	20 39 0	...	...	...	...	Do.
	f	20 57 0	...	...	...	...	
,, 30th	A_E e	20 39 0	...	...	...	...	Do.
	f	20 57 0	...	...	...	...	
Feb. 3rd	A_N P	22 22 54	...	...	...	7680	Slight. Epc. :— Near Kurile Islands, 46°N., 151°E. (J. S. A.)
	S	22 31 59	...	...	...	...	
	L	22 46 25	...	...	...	...	
	M	22 49 36	19	5	...	...	
	F	23 30 0	...	...	...	...	
,, 3rd	A_E P	22 22 54	...	...	...	7680	Do.
	S	22 31 59	...	...	...	...	
	L	22 46 26	...	...	...	...	
	M	22 54 29	19	...	4	...	
	F	23 34 0	...	...	...	...	
,, 3rd	A_N e	11 25 0	...	...	...	...	Tremors
	f	11 41 0	...	...	...	...	
,, 3rd	A_E e	11 24 0	...	...	...	...	Do.
	f	11 46 0	...	...	...	...	
,, 5th	A_N e	4 30 0	...	...	...	...	Feeble, near shock.
	f	4 34 0	...	...	...	...	
,, 5th	A_E e	4 30 0	...	...	...	...	Do.
	f	4 34 0	...	...	...	...	
,, 9th	A_N e	15 46 0	...	...	...	...	Tremors.
	f	16 27 0	...	...	...	...	
,, 9th	A_E e	15 46 0	...	...	...	...	Do.
	f	16 37 0	...	...	...	...	
,, 10th	A_N e	14 15 0	...	...	...	...	Do.
	f	15 24 0	...	...	...	...	
,, 10th	A_E e	14 15 0	...	...	...	...	Do.
	f	15 31 0	...	...	...	...	
,, 13th	A_N P	Lost while changing chart.					Moderate Epc. :— Gobi Desert, near 45° N. E.
	S	Do.			do.		
	M	3 9 29	8	15	...	3240	
	F	4 28 0	...	...	...	...	

TABLE D 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks.
1933.		H. M. S.					
Feb. 13th	A_E P	2 55 34	...	...	...	3240	Moderate Epc :— Gobi Desert, near 45° N. 89° E.
	S	3 0 34	...	...	...	...	
	M	3 9 5	9	...	14	...	
	F	Mixed up in the following tremors.					
	A_N e	4 34 0	...	...	...	...	Tremors.
„ 13th	f	5 4 0	...	...	...	...	
	A_E e	4 33 0	...	...	...	...	Do.
„ 13th	f	4 59 0	...	...	...	...	
	A_N e	13 49 0	...	...	...	...	Do.
„ 14th	f	14 8 0	...	...	...	...	
	A_E e	13 48 0	...	...	...	...	Do.
„ 14th	f	14 0 0	...	...	...	...	
	A_N e	9 17 0	...	...	...	...	Do.
„ 16th	f	9 53 0	...	...	...	...	
	A_E e	9 18 0	...	...	...	...	Do.
„ 16th	f	10 2 0	...	...	...	...	
	A_N e	4 41 0	...	...	...	...	Do.
„ 19th	f	5 24 0	...	...	...	...	
	A_E e	4 34 0	...	...	...	...	Do.
„ 19th	f	5 36 0	...	...	...	...	
	A_N e	11 40 0	...	...	...	...	Do.
„ 20th	f	12 12 0	...	...	...	...	
	A_E e	11 38 0	...	...	...	...	Do.
„ 20th	f	12 8 0	...	...	...	...	
	A_N P	19 6 54	...	...	...	1960	Feeble.
	S	19 10 17	...	...	...	...	
	M	19 17 47	15	5	...	...	
	F	19 44 0	...	...	...	...	
	A_E P	19 6 54	...	...	...	1960	Do.
„ 21st	S	19 10 17	...	...	...	...	
	M	19 16 2	14	...	3	...	
	F	19 49 0	...	...	...	...	
	A_N P	18 2 30	...	...	...	2580	Slight.
„ 22nd	S	18 6 42	...	...	...	...	
	L	18 9 26	...	...	...	...	
	M	18 12 29	14	8	...	...	
	F	18 44 0	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks.
1933.		H. M. S.					
Feb. 22nd	A_E P	18 2 30	...	...	...	2580	Slight.
	S	18 6 42	...	...	...	...	
	L	18 9 26	...	...	...	...	
	M	18 12 29	13	...	4	...	
	F	18 34 0	...	...	...	...	
„ 23rd	A_N P	8 28 55	...	...	...	16900	Great shock. Epc. :— Pacific Ocean off Northern Chile, 19° 30′ S., 71° W. (J. S. A.)
	Sc Pc	8 39 30	...	...	...	...	
	PcS M	9 30 22	18	16	...	...	
	F	11 17 0	...	...	...	...	
„ 23rd	A_E P	8 28 58	...	...	...	16900	Do.
	Sc Pc	8 39 30	...	...	...	...	
	PcS M	9 30 1	21	...	68	...	
	F	11 30 0	...	...	...	...	
„ 25th	A_N e	4 27 0	...	...	...	...	Tremors.
	f	4 38 0	...	...	...	...	
„ 25th	A_E e	4 27 0	...	...	...	...	Do.
	f	4 38 0	...	...	...	...	
„ 27th	A_N e	16 34 0	...	...	...	...	Do.
	f	17 21 0	...	...	...	...	
„ 27th	A_E e	16 34 0	...	...	...	...	Do.
	f	17 21 0	...	...	...	...	
Mar. 1st	A_N e	16 25 0	...	...	...	...	Do.
	f	16 40 0	...	...	...	...	
„ 1st	A_E e	16 26 0	...	...	...	...	Do.
	f	16 50 0	...	...	...	...	
„ 2nd	A_N P	17 41 35	...	...	...	7250	Very great. Epc. :— Japan, near 39° 12′ N., 144° 36′ E. (C.M.O. Japan).
	S	17 50 25	...	...	...	...	
	L	18 5 29	...	...	...	...	
	M	18 16 9	16	611	...	...	
	F	23 27 0	...	...	...	...	
„ 2nd	A_E P	17 41 35	...	...	...	7250	Do.
	S	17 50 25	...	...	...	...	
	L	18 5 29	...	...	...	...	
	M	18 18 9	16	...	477	...	
	F	23 33 0	...	...	...	...	
„ 3rd	A_N e	2 28 0	...	...	...	...	Tremors.
	f	3 0 0	...	...	...	...	
„ 3rd	A_E e	2 28 0	...	...	...	...	Do.
	f	3 5 0	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks.
1933.		H. M. S.					
Mar. 3rd	A_N P	4 48 24	...	...	...	7220	Slight. Epi-centre in Japan. After shocks of the great shock of Mar. 2nd. 17 h. 42 m. (G.M.T.)
	S	4 57 3	...	...	...	...	
	M	5 19 29	12	2	...	...	
	F	5 31 0	...	...	...	...	
„ 3rd	A_E P	4 48 24	...	...	...	7220	Do.
	S	4 57 3	...	...	...	...	
	M	5 20 41	18	...	1	...	
	F	5 30 0	...	...	...	...	
„ 3rd	A_N P	9 23 19	...	...	...	7220	Do
	S	9 31 59	...	...	...	...	
	L	9 46 44	...	...	...	...	
	M	9 54 7	15	4	...	...	
	F	11 14 0	...	...	...	...	
„ 3rd	A_E P	9 23 19	...	...	...	7220	Do.
	S	9 31 59	...	...	...	...	
	L	9 46 44	...	...	...	...	
	M	9 52 29	17	...	5	...	
	F	11 21 0	...	...	...	...	
„ 3rd	A_N e	15 42 0	...	...	...	...	Tremors.
	f	16 4 0	...	...	...	...	
„ 3rd	A_E e	15 39 0	...	...	...	...	Do.
	f	16 5 0	...	...	...	...	
„ 3rd	A_N e	16 53 0	...	...	...	...	Do.
	f	16 57 0	...	...	...	...	
„ 3rd	A_E e	16 52 0	...	...	...	...	Do.
	f	16 57 0	...	...	...	...	
„ 3rd	A_N e	19 46 0	...	...	...	...	Do.
	f	19 54 0	...	...	...	...	
„ 3rd	A_E e	19 46 0	...	...	...	...	Do.
	f	19 54 0	...	...	...	...	
„ 5th	A_N e	8 30 0	...	...	...	...	Do.
	f	9 20 0	...	...	...	...	
„ 5th	A_E e	8 30 0	...	...	...	...	Do.
	f	9 26 0	...	...	...	...	

TABLE D 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance △ (Km.)	Remarks.
1933.		H. M. S.					
	A_N						
Mar. 6th	P	13 9 42	...	...	...	1850	Slight. Epc. :— Garo hills (West Assam).
	S	13 12 54	...	...	...	...	
	L	13 14 34	...	...	...	...	
	M	13 15 6	6	26	...	...	Felt at Dhubri, Gauhati, Cherrapunji, Rangpur Cooch Behar and Mymensingh.
	F	14 18 0	...	...	...	...	
	A_E						
	P	13 9 42	...	...	...	1850	Do.
	S	13 12 54	...	...	...	...	
	L	13 14 34	...	...	...	...	
	M	13 15 19	8	...	19	...	
	F	14 17 0	...	...	...	...	
	A_N						
,, 11th	e	2 15 0	...	...	...	...	Very feeble movements, phases not clear. Shock reported to be destructive in California (U.S.A.).
	f	3 40 0	...	...	...	...	
	A_E						
,, 11th	e	2 13 0	...	...	...	...	Do.
	f	3 40 0	...	...	...	...	
	A_N						
,, 11th	e	14 32 49	...	...	...	...	Slight.
	i	14 41 50	...	...	...	...	
	M	15 5 5	15	5	...	...	
	F	15 58 0	...	...	...	...	
	A_E						
, 11th	e	14 32 49	...	...	...	...	Do.
	i	14 41 50	...	...	...	...	
	M	15 4 50	15	...	4	...	
	F	16 1 0	...	...	...	...	
	A_N						
,, 11th	P	19 42 15	...	...	...	...	Slight. L-waves poorly developed.
	i	19 50 1	...	...	...	...	
	PS (?)	19 51 27	...	...	...	...	
	M	20 4 25	10	3	...	...	
	F	20 52 0	...	...	...	...	
	A_E						
,, 11th	P	19 42 15	...	...	...	...	Do.
	i	19 50 1	...	...	...	...	
	PS (?)	19 51 27	...	...	...	...	
	M	20 4 30	11	...	2	...	
	F	20 53 0	...	...	...	...	
	A_N						
,, 15th	e	5 28 0	...	...	...	...	Tremors.
	f	6 50 0	...	...	...	...	
	A_E						
,, 15th	e	5 17 0	...	...	...	...	Do.
	f	6 55 0	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance △ (Km.)	Remarks.
1933.		H. M. S.					
	A_N						
Mar. 17th	P	16 7 0	...	...	...	8040	Moderate. Epc. :— Garo hills (West Assam).
	S	16 16 27	...	...	...	...	
	L	16 33 18	...	...	...	...	
	M	16 37 35	14	18	...	...	Felt at Dhubri, Gauhati, Cherrapunji, Rangpur Cooch Behar and Mymensingh.
	F	17 40 0	...	...	...	...	
	A_E						
,, 17th	P	16 7 0	...	...	...	8040	Do.
	S	16 16 27	...	...	...	...	
	L	16 33 18	...	...	...	...	
	M	16 43 1	18	...	40	...	
	F	18 42 0	...	...	...	...	
	A_N						
,, 17th	P	19 41 51	...	...	...	6320	Moderate. Epc. :— Near Mindanao Island, 6° 30′ N., 128° E. Manilla △ = 1200 Kms.
	S	19 49 50	...	...	...	...	
	L	20 0 48	...	...	...	...	
	M	20 15 34	15	9	...	...	
	F	21 25 0	...	...	...	...	
	A_E						
,, 17th	P	19 41 51	...	...	...	6320	Do.
	S	19 49 50	...	...	...	...	
	L	20 0 48	...	...	...	...	
	M	20 10 59	17	...	19	...	
	F	21 22 0	...	...	...	...	
	A_N						
,, 18th	e	3 24 0	...	...	...	...	Tremors.
	f	5 3 0	...	...	...	...	
	A_E						
,, 18th	e	3 22 0	...	...	...	...	Do.
	f	5 1 0	...	...	...	...	
	A_N						
,, 18th	e	18 30 0	...	...	...	...	Do.
	f	19 38 0	...	...	...	...	
	A_E						
,, 18th	e	18 30 0	...	...	...	...	Do.
	f	19 38 0	...	...	...	...	
	A_E						
,, 18th-19th.	e	23 58 0	...	...	...	...	Do.
	f	0 15 0	...	...	...	...	
	A_E						
,, 18th-19th.	e	23 58 0	...	...	...	...	Do.
	f	0 15 0	...	...	...	...	
	A_N						
,, 22nd	P	2 28 10	...	...	...	2760	Slight.
	S	2 32 36	...	...	...	...	
	F	2 58 0	...	...	...	...	
	A_E						
,, 22nd	P	2 28 10	...	...	...	2760	Do.
	S	2 32 36	...	...	...	...	
	F	2 52 0	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance △ (Km.)	Remarks.
1933.		H. M. S					
	A_N						
Mar. 23rd	P	17 46 32	...	...	...	4060	Slight Epc. :— Gobi Desert (China).
	S	17 52 23	...	...	...	...	
	L	17 57 58	...	...	...	...	
	M	18 2 34	10	8	...	...	
	F	18 38 0	...	...	...	...	
	A_E						
,, 23rd	P	17 46 32	...	...	...	4060	Do.
	S	17 52 23	...	...	...	...	
	L	17 57 58	...	...	...	...	
	M	18 0 6	11	...	7	...	
	F	18 39 0	...	...	...	...	
	A_N						
,, 30th	e	20 46 0	...	...	...	...	Tremors.
	f	21 7 0	...	...	...	...	
	A_E						
,, 30th	e	20 45 0	...	...	...	...	Do.
	f	21 4 0	...	...	...	...	
	A_N						
,, 31st	P	22 5 24	...	...	...	3040	Slight Epc. :— China, near 24°N., 102° E.
	S	22 10 10	...	...	...	...	
	L	22 14 42	...	...	...	...	
	M	22 15 17	13	4	...	...	
	F	22 34 0	...	...	...	...	
	A_E						
,, 31st	P	22 5 24	...	...	...	3050	Do.
	S	22 10 10	...	...	...	...	
	L	22 14 42	...	...	...	...	
	M	22 15 29	11	...	2	...	
	F	22 37 0	...	...	...	...	
	A_N						
Apl. 1st	e	16 18 0	...	...	...	...	Tremors.
	f	17 21 0	...	...	...	...	
	A_E						
,, 1st	e	16 18 0	...	...	...	...	Do.
	f	17 20 0	...	...	...	...	
	A_N						
,, 2nd	e	21 12 0	...	...	...	...	Do.
	f	21 29 0	...	...	...	...	
	A_E						
,, 2nd	e	21 12 0	...	...	...	...	Do.
	f	21 30 0	...	...	...	...	
	A_N						
,, 3rd	e	18 50 0	...	...	...	...	Do.
	f	19 6 0	...	...	...	...	
	A_E						
,, 3rd	e	18 50 0	...	...	...	...	Do.
	f	19 6 0	...	...	...	...	

TABLE D 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks.
1933.		H. M. S.					
	A_N						
Apl. 9th	P	2 57 11	...	...	...	6980	Slight. Epc :— Japan, near 29° 30' N., 143°E. (J. S. A.).
	S	3 5 47	...	...	...	...	
	L	3 21 0	...	...	...	...	
	M	3 27 10	12	14	...	...	
	F	4 44 0	...	...	...	...	
	A_E						
,, 9th	P	2 57 11	...	...	...	6980	Do.
	S	3 5 47	...	...	...	...	
	L	3 19 8	...	...	...	...	
	M	3 28 0	13	...	11	...	
	F	4 56 0	...	...	...	...	
	A_N						
,, 9th	e	4 59 0	...	...	...	...	Tremors.
	f	5 45 0	...	...	...	...	
	A_E						
,, 9th	e	5 0 0	...	...	...	...	Do.
	f	5 45 0	...	...	...	...	
	A_N						
,, 13th	e	22 28 0	...	...	...	...	Do.
	f	25 31 0	...	...	...	...	
	A_E						
,, 13th	e	22 25 0	...	...	...	...	Do.
	f	23 16 0	...	...	...	...	
	A_N						
,, 16th	e	6 46 0	...	...	...	...	Do.
	f	7 38 0	...	...	...	...	
	A_N						
,, 16th	e	19 27 0	...	...	...	...	Do.
	f	20 4 0	...	...	...	...	
	A_E						
,, 16th	e	19 27 0	...	...	...	...	Do.
	f	20 50 0	...	...	...	...	
	A_E						
,, 19th	P	6 53 1	...	...	...	5010	Moderate. Epc. :— Formosa Island.
	S	6 59 46	...	...	...	...	
	L	7 8 31	...	...	...	...	
	M	7 16 1	11	...	12	...	
	F	8 20 0	...	...	...	...	
	A_N						
,, 23rd	P	6 5 38	...	...	...	5060	Slight. Epc. :— Kos Island in Aegean Sea, 36·5° N., 26·5° E. (Strasbourg).
	S	6 12 36	...	...	...	...	
	L	6 22 5	...	...	...	...	
	M	6 30 41	12	8	...	...	
	F	Mixed up in the following shock.					

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks.
1933		H. M. S.					
	A_E						
Apl. 23rd	P	6 5 38	...	...	...	5060	Slight. Epc :— Kos Islands in Aegean Sea, 36°5 N., 26°5 E. (Strasbourg.)
	S	6 12 36	...	...	...	...	
	L	6 22 5	...	...	...	...	
	M	6 26 37	16	...	13	...	
	F	Mixed up in the following shock.					
	A_N						
,, 23rd	P	7 24 12	...	...	...	6980	Slight. Epc. :— Japan, near that of April 9.
	S	7 32 48	...	...	...	...	
	L	7 47 39	...	...	...	...	
	M	7 54 21	13	6	...	...	
	F	9 28 0	...	...	...	...	
	A_E						
,, 23rd	P	7 24 12	...	...	...	6980	Do.
	S	7 32 48	...	...	...	...	
	L	7 47 39	...	...	...	...	
	M	7 59 4	11	...	8	...	
	F	9 49 0	...	...	...	...	
	A_N						
,, 27th	P	2 49 21	...	...	...	10800	Great. Epc. :— 61° N., 150°W. (U. S. C.G.S.) Destructive in Alaska.
	So-Pcs	2 59 55	...	...	...	...	
	L	3 22 17	...	...	...	...	
	M	3 35 47	14	78	...	...	
	F	6 15 0	...	...	...	...	
	A_E						
,, 27th	P	2 49 21	...	...	...	10800	Do.
	So-Pcs	2 59 55	...	...	...	...	
	L	3 22 17	...	...	...	...	
	M	3 37 10	13	...	37	...	
	F	6 3 0	...	...	...	...	
	A_N						
,, 27th	e	12 9 0	...	...	...	...	Tremors.
	f	13 40 0	...	...	...	...	
	A_E						
,, 27th	e	12 9 0	...	...	...	...	Do.
	f	13 33 0	...	...	...	...	
	A_N						
May 1st	e	19 2 0	...	...	...	...	Do.
	f	21 59 0	...	...	...	...	
	A_E						
,, 1st	e	19 2 0	...	...	...	...	Do.
	f	21 41 0	...	...	...	...	
	A_N						
,, 1-2nd	e	23 27 0	...	...	...	...	Do.
	f	0 21 0	...	...	...	...	
	A_E						
,, 1-2nd	e	23 32 0	...	...	...	...	Do.
	f	0 18 0	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks.
1933.		H. M. S.					
	A_N						
May 6th	e	5 53 0	...	...	...	...	Tremors.
	f	7 52 0	...	...	...	...	
	A_E						
,, 6th	e	5 53 0	...	...	...	...	Do.
	f	7 31 0	...	...	...	...	
	A_N						
,, 8th	i	10 53 15	...	...	...	...	Slight. Very distant. Beginning not traceable.
	M	11 59 29	28	33	...	...	
	F	18 18 0	...	...	...	...	
	A_E						
,, 8th	i	10 53 15	...	...	...	...	Do.
	M	12 4 3	28	...	18	...	
	F	12 51 0	...	...	...	...	
	A_N						
,, 11th	P	18 18 24	...	...	...	5140	Slight. Epc. :— Gulf of Salonica, 40° N., 24° E. (Strasbourg).
	S	18 25 16	...	...	...	...	
	L	18 34 43	...	...	...	...	
	F	20 32 0	...	...	...	...	
	A_E						
,, 11th	P	18 18 24	...	...	...	5140	Do.
	S	18 25 16	...	...	...	...	
	L	18 34 43	...	...	...	...	
	F	20 21 0	...	...	...	...	
	A_N						
,, 12th	P	16 16 14	...	...	...	2720	Slight. Epc. :— Upper Yangtse Valley (China) 25° N., 100° E.
	S	16 20 37	...	...	...	...	
	L	16 23 43	...	...	...	...	
	F	16 45 0	...	...	...	...	
	A_E						
,, 12th	P	16 16 14	...	...	...	2720	Do.
	S	16 20 37	...	...	...	...	
	L	16 23 43	...	...	...	...	
	F	16 49 0	...	...	...	...	
	A_N						
,, 16th	P	1 18 9	...	...	...	2900	Moderate Epc :— North west Sumatra.
	S	1 22 45	...	...	...	...	
	L	1 26 23	...	...	...	...	
	M	1 37 33	15	34	...	...	
	F	3 29 0	...	...	...	...	
	A_E						
,, 16th	P	1 18 9	...	...	...	2900	Do.
	S	1 22 45	...	...	...	...	
	L	1 26 23	...	...	...	...	
	M	1 37 43	17	...	53	...	
	F	3 17 0	...	...	...	...	
	A_N						
,, 18th	e	0 30 0	...	...	...	...	Tremors.
	f	1 15 0	...	...	...	...	

TABLE D 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) $\frac{A_N}{A_E}$	Distance (Km.) △	Remarks.
1933.		H. M. S.				
May 18th	A_E e	0 32 0	...	... ...	...	Tremors.
	f	1 9 0	...	... ...	...	
	A_N P	10 29 30	...	... ...	830	Slight.
,, 18th	S	10 31 0	...	... ...	...	
	M	10 32 30	10	9 ...	...	
	F	10 50 0	...	... ...	...	
	A_E P	10 29 30	...	... ...	830	Do.
,, 18th	S	10 31 0	...	... ...	...	
	M	10 32 30	9	... 6	...	
	F	10 50 0	...	... ...	...	
	A_N e	17 35 0	...	... ...	...	Tremors.
,, 19th	f	17 47 0	...	... ...	...	
	A_E e	17 35 0	...	... ...	...	Do.
,, 19th	f	17 45 0	...	... ...	...	
	A_N P	18 11 1	...	... ...	9340	Slight. Epc. :— Atlantic Ocean, 1·5° S., 11°W. (Strasbourg).
	S	18 21 27	...	... ...	...	
	L	18 42 24	...	... ...	...	
	M	18 45 49	18	7 ...	...	
	F	20 3 0	...	... ...	...	
	A_E P	18 11 1	...	... ...	9340	Do.
,, 19th	S	18 21 27	...	... ...	...	
	L	18 42 24	...	... ...	...	
	M	18 51 11	18	... 6	...	
	F	20 50 0	...	... ...	...	
	A_N e	5 36 0	...	... ...	...	Tremors.
,, 20th	f	6 21 0	...	... ...	...	
	A_E e	5 36 0	...	... ...	...	Do.
,, 20th	f	6 21 0	...	... ...	...	
	A_N P	7 48 10	...	... ...	6220	Slight. Epc. :— Japan, near 31° 26′ N., 131° 6′ E. (Taihoku).
June 2nd	S	7 56 3	...	... ...	...	
	L	8 7 39	...	... ...	...	
	M	8 14 28	12	3 ...	...	
	F	8 35 0	...	... ...	...	
	A_E P	7 48 10	...	... ...	6220	Do.
,, 2nd	S	7 56 3	...	... ...	...	
	L	8 7 39	...	... ...	...	
	M	8 16 33	15	... 5	...	
	F	8 35 0	...	... ...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) $\frac{A_N}{A_E}$	Distance (Km.) △	Remarks.
1933.		H. M. S.				
	A_N P	17 18 20	...	... ...	5810	Slight. Epc. :— Luchu Island 28° 30′ N., 129° 30′ E. (Taihoku).
June 3rd	S	17 25 50	...	... ...	...	
	L	17 36 38	...	... ...	...	
	M	17 42 16	11	6 ...	...	
	F	18 8 0	...	... ...	...	
	A_E P	17 18 20	...	... ...	5810	Do.
,, 3rd	S	17 25 50	...	... ...	...	
	L	17 36 38	...	... ...	...	
	M	17 45 5	15	... 4	...	
	F	17 54 0	...	... ...	...	
	A_N P	2 36 49	...	... ...	4900	Slight. Epc. :— Philippine Island, 14° 20′ N., 121° 36′ E. (Manila).
,, 6th	S	2 48 28	...	... ...	...	
	L	2 52 16	...	... ...	...	
	M	2 57 38	15	5 ...	...	
	F	3 41 0	...	... ...	...	
	A_E P	2 36 49	...	... ...	4900	Do.
,, 6th	S	2 48 28	...	... ...	...	
	L	2 52 16	...	... ...	...	
	M	2 57 16	16	... 4	...	
	F	3 29 0	...	... ...	...	
	A_N F	11 51 44	...	... ...	2870	Moderate. Epc. :— Yangtse Valley (China), 25° 12′ N., 101° 54′ E (Chiu feng)
,, 7th	S	11 56 18	...	... ...	...	
	L	12 0 16	...	... ...	...	
	M	12 3 34	8	21 ...	...	
	F	12 49 0	...	... ...	...	
	A_E P	11 51 44	...	... ...	2870	Do.
,, 7th	S	11 56 18	...	... ...	...	
	L	12 0-16	...	... ...	...	
	M	12 3 34	8	... 17	...	
	F	12 49 0	...	... ...	...	
	A_N F	18 21 16	...	... ...	7090	Slight. Epc. :— Japan near 40° 12′ N., 144° E. (Taihoku).
,, 8th	S	18 29 58	...	... ...	...	
	L	18 44 57	...	... ...	...	
	M	18 52 15	15	4 ...	...	
	F	19 13 0	...	... ...	...	
	A_E P	18 21 16	...	... ...	7090	Do.
,, 8th	S	18 29 58	...	... ...	...	
	L	18 44 57	...	... ...	...	
	M	18 51 31	15	... 2	...	
	F	19 12 0	...	... ...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) $\frac{A_N}{A_E}$	Distance (Km.) △	Remarks
1933.		H. M. S.				
June 10th	A_N e	12 48 0	...	... ...	...	Tremors.
	f	13 4 0	...	... ...	...	
	A_E e	12 45 0	...	... ...	...	Do.
,, 10th	f	13 4 0	...	... ...	...	
	A_N e	18 43 0	...	... ...	...	Do.
,, 12th	f	19 23 0	...	... ...	...	
	A_E e	18 46 0	...	... ...	...	Do.
,, 12th	f	19 15 0	...	... ...	...	
	A_N P	20 44 8	...	... ...	6870	Slight. Epc. :— Japan off mouth of Mabuti River (Taihoku).
,, 13th	S	20 52 38	...	... ...	...	
	L	21 6 53	...	... ...	...	
	M	21 12 29	18	5 ...	...	
	F	22 9 0	...	... ...	...	
	A_E P	20 44 8	...	... ...	6870	Do.
,, 13th	S	20 53 38	...	... ...	...	
	L	21 6 53	...	... ...	...	
	M	21 13 17	17	... 3	...	
	F	21 38 0	...	... ...	...	
	A_N e	23 7 0	...	... ...	...	Tremors.
,, 13th	f	23 45 0	...	... ...	...	
	A_E e	23 9 0	...	... ...	...	Do.
,, 13th	f	23 35 0	...	... ...	...	
	A_N P	21 47 58	...	... ...	6750	Great. Epc. :— Japan, 38°N., 142°E. (U.S.C. G.S.) 43°N. 142°E. (Strasbourg).
,, 18th-19th.	S	21 56 21	...	... ...	...	
	L	22 10 32	...	... ...	...	
	M	22 14 57	15	68 ...	...	
	F	0 29 0	...	... ...	...	
	A_E P	21 47 58	...	... ...	6750	Do.
,, 18th-19th.	S	21 56 21	...	... ...	...	
	L	22 10 32	...	... ...	...	
	M	22 16 2	16	... 81	...	
	F	0 47 0	...	... ...	...	
	A_N P	22 2 24	...	... ...	4440	Very great. Destructive in Southern Sumatra. Epc. :— 4°S., 103·5°E. (Strasbourg)
,, 24th-25th.	S	22 8 38	...	... ..	...	
	L	22 15 16	...	... ...	...	
	M	22 19 5	18	550 ...	...	
	F	2 15 0	...	... ...	...	

TABLE D 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N A_E	Distance △ (K. m.)	Remarks.
1933.		H. M. S.				
June 24th-25th.	A_E P	22 2 24	...	... ...	4440	Very great. Destructive in Southern Sumatra. Epc. :—4°S., 103·5°E (Strasbourg.)
	S	22 8 38	...	... ...	...	
	L	22 15 16	...	... ...	...	
	M	22 19 37	18	... 357	...	
	F	Confused in microseisms.				
,, 25th	A_N e	18 4 0	...	... ...	...	Tremors.
	f	18 40 0	...	... ...	...	
,, 25th	A_E e	18 11 0	...	... ...	...	Do.
	f	18 39 0	...	... ...	..	
,, 29th	A_N e	0 23 0	...	... ...	...	Do.
	f	0 55 0	...	... ...	...	
,, 29th	A_E e	0 23 0	...	... ...	...	Do.
	f	0 46 0	...	... ...	...	
July 3rd	A_N P	15 18 10	...	... ...	3100	Slight. Epc. :—5°N., 80°W., west of Sumatra, Batavia △ = 1910 kms.
	S	15 23 12	...	... ...	...	
	L	15 24 43	...	... ...	...	
	M	15 25 30	10	4 ...	...	
	F	Mixed up with microseisms.				
,, 3rd	A_E P	15 18 10	...	... ...	3100	Do.
	S	15 23 12	...	... ...	...	
	L	15 24 43	...	... ...	...	
	M	15 28 0	9	... 3	...	
	F	Mixed up with microseisms.				
,, 4th	A_N e	3 1 0	...	... ...	...	Tremors.
	f	3 20 0	...	... ...	...	
,, 4th	A_E e	3 5 0	...	... ...	...	Do.
	f	3 20 0	...	... ...	...	
,, 4th	A_N e	7 33 0	...	... ...	...	Distant, feeble.
	M	7 39 44	15	8 ...	...	
	F	Mixed up with microseisms.			...	
,, 4th	A_E e	7 33 0	...	... ...	...	Do.
	M	7 39 14	13	... 7	...	
	F	Mixed up with microseisms.				
,, 8th	A_N e	8 36 0	...	... ...	...	Tremors.
	f	8 52 0	...	... ...	...	
1933.		H. M. S.				
July 8th	A_E e	8 36 0	...	... ...	...	Tremors.
	f	8 51 0	...	... ...	...	
,, 9th	A_N P	1 41 0	...	... ...	7780	Slight. Epc. :—near Kurile Islands.
	S	1 50 7	...	... ...	...	
	L	2 4 23	...	... ...	...	
	M	2 14 15	15	11 ...	...	
	F	3 31 0	...	... ...	...	
,, 9th	A_E P	1 41 0	...	... ...	7780	Do.
	S	1 50 7	...	... ...	...	
	L	2 4 23	...	... ...	...	
	M	2 16 45	15	... 8	...	
	F	Mixed up with microseisms.				
,, 9th	A_N eP	9 38 53	...	... ...	7890	Slight.
	S	9 48 3	...	... ...	...	
	L	10 4 15	...	... ...	...	
	M	10 16 23	15	6 ...	...	
	F	11 20 0	...	... ...	...	
,, 9th	A_E eP	9 38 53	...	... ...	7890	Do.
	S	9 48 3	...	... ...	...	
	L	10 4 15	...	... ...	...	
	M	Uncertain			...	
	F	Mixed up with microseisms.			...	
,, 9th	A_N P	12 41 37	...	... ...	7670	Moderate. Epc. :—45°N., 150°E. near Kurile Islands.
	S	12 50 45	...	... ...	...	
	L	13 7 2	...	... ...	...	
	M	13 14 49	15	26 ...	...	
	F	15 24 0	...	... ...	...	
,, 9th	A_E P	12 41 37	...	... ...	7670	Do.
	S	12 50 45	...	... ...	...	
	L	13 7 2	...	... ...	...	
	M	13 17 21	15	... 20	...	
	F	Confused with microseisms.			...	
,, 9th	A_N e	16 19 0	...	... ...	...	Distant, very feeble.
	M	16 52 0	13	3 ...	...	
	F	Confused with microseisms.				
,, 9th	A_E e	16 19 0	...	... ...	...	Do.
	M	16 52 0	14	... 3	...	
	F	Confused with microseisms.				
,, 9th	A_N e	22 52 0	...	... ...	...	Tremors.
	f	23 12 0	...	... ...	...	
1933.		H. M. S.				
July 9th	A_E e	22 54 0	...	... ...	...	Tremors.
	f	23 9 0	...	... ...	...	
,, 10th	A_N e	0 32 0	...	... ...	...	Distant, feeble.
	M	1 1 37	15	3 ...	...	
	F	Confused with microseisms.			...	
,, 10th	A_E e	0 32 11	...	... ...	...	Do.
	M	Movements very small.			...	
	F	Confused with microseisms.			...	
,, 10th	A_N e	3 45 0	...	... ...	...	Very distan, feeble.
	M	4 52 30	19	8 ...	...	
	F	5 34 0	...	... ...	...	
,, 10th	A_E e	3 45 0	...	... ...	...	Do.
	M	4 55 15	18	... 3	...	
	F	Confused with microseisms.				
,, 10th	A_N e	10 44 0	...	... ...	...	Tremors.
	f	11 33 0	...	... ...	...	
,, 10th	A_E e	10 44 0	...	... ...	...	Do.
	f	11 32 0	...	... ...	...	
,, 13th	A_N e	8 28 0	...	... ...	...	Do.
	f	8 55 0	...	... ...	...	
,, 13th	A_E e	8 27 0	...	... ...	...	Do.
	f	8 57 0	...	... ...	...	
,, 13th	A_N e	14 31 0	...	... ...	...	Do.
	f	15 17 0	...	... ...	...	
,, 13th	A_E e	14 31 0	...	... ...	...	Do.
	f	15 9 0	...	... ...	...	
,, 13th	A_N eP	23 16 58	...	... ...	1940	Feeble. Epc. :—North Assam, felt at Gauhati
	S	23 18 38	...	... ...	...	
	F	23 26 0	...	... ...	...	
,, 13th	A_E eP	23 16 58	...	... ...	1940	Do.
	F	23 18 38	...	... ...	..	
	F	23 28 0	...	... ...	...	

TABLE D 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks.
1933.		H. M. S.					
July 16th-17th.	A_N P	23 48 2	...	...	...	...	Slight, felt locally Origin probably within 100 kms. of Bombay.
	F	0 0 0	...	...	...	...	
	A_E P	23 48 2	...	...	...	...	
	F	0 0 0	...	...	...	...	Do.
,, 18th	A_N e	19 24 0	...	...	...	...	Tremors.
	f	20 6 0	...	...	...	...	
,, 18th	A_E e	19 24 0	...	...	...	...	Do.
	f	20 0 0	...	...	...	...	
,, 19th	A_N e	11 9 0	...	...	...	...	Do.
	f	12 17 0	...	...	...	...	
,, 19th	A_E e	11 9 0	...	...	...	...	Do.
	f	12 11 0	...	...	...	...	
,, 19th	A_N e	14 17 0	...	...	...	...	Do.
	f	14 51 0	...	...	...	...	
,, 19th	A_E e	14 17 0	...	...	...	...	Do.
	f	14 51 0	...	...	...	...	
19th	A_N e	15 45 0	...	...	...	...	Do.
	f	16 24 0	...	...	...	...	
,, 19th	A_E e	15 45 0	...	...	...	...	Do.
	F	16 21 0	...	...	...	...	
,, 19th	A_N e	20 54 0	...	...	...	...	Do.
	f	21 20 0	...	...	...	...	
,, 19th	A_E e	20 54 0	...	...	...	...	Do.
	f	21 20 0	...	...	...	...	
,, 20th	A_N e	22 33 0	...	...	...	...	Do.
	f	23 3 0	...	...	...	...	
,, 20th	A_E e	22 33 0	...	...	...	...	Do.
	f	23 3 0	...	...	...	...	
,, 21st	A_N e	20 25 28	...	...	...	12200	Slight. Epc :— Near Sandwich Islands.
	PS	20 35 28	...	...	...	...	
	SR_1	20 41 48	...	...	...	...	
	L	21 0 0	...	...	...	...	
	M	21 5 6	19	11	...	...	
	F	21 52 0	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks.
1933.		H. M. S.					
July 21st	A_E e	20 25 28	...	...	...	12200	Slight Epc :— Near Sandwich Islands.
	PS	20 35 28	...	...	...	...	
	SR_1	20 41 48	...	...	...	...	
	L	21 0 0	...	...	...	...	
	M	21 4 45	19	...	8	...	
	F	22 43 0	...	...	...	...	
,, 22nd-23rd.	A_N P	21 8 18	...	...	...	10300	Moderate, Epc :— Near Fox Islands.
	PS	21 20 25	...	...	...	...	
	SR_1	21 25 41	...	...	...	...	
	L	21 40 11	...	...	...	...	
	M	21 52 6	17	37	...	...	
	F	23 7 0	...	...	...	...	
,, 22nd-23rd.	A_E P	21 8 18	...	...	...	10300	Do.
	PR_1 Sc PcS	21 11 56 21 18 50	... ...	... ...	... ...	... ...	
	SR_1	21 25 48	...	...	...	...	
	eL	21 40 0	...	...	...	...	
	M	21 53 36	19	...	51	...	
	F	0 11 0	...	...	...	...	
,, 24th	A_N e	19 21 16	...	...	...	...	Very distant, slight; confused with microseisms.
	e	19 32 27	...	...	...	...	
	M	20 12 34	19	4	...	...	
	F	20 18 0	...	...	...	...	
,, 24th	A_E e	19 21 16	...	...	...	...	Do.
	e	19 32 27	...	...	...	...	
	L	19 44 12	...	...	...	...	
	M	20 10 20	19	...	3	...	
	F	21 18 0	...	...	...	...	
,, 30th	A_N e	17 40 0	...	...	...	...	Tremors.
	f	18 3 0	...	...	...	...	
,, 30th	A_E e	17 39 0	...	...	...	...	Do.
	f	17 54 0	...	...	...	...	
Aug. 4th	A_N e	17 42 25	...	...	...	...	Very feeble shock.
	F	18 2 0	...	...	...	...	
,, 5th	A_N e	2 7 0	...	...	...	...	Tremors.
	f	2 12 0	...	...	...	...	
,, 11th	A_N P	8 59 25	...	...	...	2850	Omori-Ewing data.
	eS	9 3 57	...	...	...	...	
	eL	9 6 27	...	...	...	...	Moderate.
	F	9 30 0	...	...	...	...	Epc :— 28°N., 97°E., near Namkin Mountains.

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks
1933.		H. M. S.					
Aug. 11th	A_N e	11 22 50	...	...	...	...	Feeble.
	F	11 42 0	...	...	...	...	
,, 13th	A_N eF	17 2 13	...	...	...	...	Do.
	M	17 6 32	7	1	...	...	
	F	17 22 0	...	...	...	...	
,, 13th	A_N P	9 37 23	...	...	...	5960	Slight
	S	9 45 6	...	...	...	...	
	L	9 52 59	...	...	...	...	
	M	9 58 16	19	16	...	...	
	F	11 32 0	...	...	...	...	
,, 13th	A_E P	9 37 28	...	...	...	5960	Do.
	S	9 45 6	...	...	...	...	
	L	9 52 37	...	...	...	...	
	M	9 56 50	19	...	7	...	
	F	10 16 0	...	...	...	...	
,, 14th	A_N e	18 13 0	...	...	...	...	Tremors,
	f	18 32 0	...	...	...	...	
,, 14th	A_E e	18 13 0	...	...	...	...	
	f	18 30 0	...	...	...	...	
,, 14th	A_N e	22 27 0	...	...	...	...	Feeble.
	M	22 35 10	11	3	...	...	
	F	22 48 0	...	...	...	...	
,, 14th	A_E e	22 27 0	...	...	...	...	Do.
	M	22 35 10	...	...	...	...	
	F	22 48 0	...	...	...	...	
,, 15th	A_N e	3 8 29	...	...	...	...	Feeble distan
	e	3 17 10	...	...	...	...	
	F	3 55 0	...	...	...	...	
,, 15th	A_E e	3 8 29	...	...	...	...	Do.
	e	3 17 10	...	...	...	...	
	F	3 49 0	...	...	...	...	
,, 20th	A_N i	11 54 8	...	...	...	...	Slight distan
	i	12 1 16	...	...	...	...	
	M	12 17 54	14	9	...	...	
	F	13 33 0	...	...	...	...	
,, 20th	A_E i	11 54 8	...	...	...	...	Do
	i	12 1 16	...	...	...	...	
	M	12 17 38	15	...	10	...	
	F	13 25 0	...	...	...	...	

TABLE D 2—*cont.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks
1933.		H. M. S.					
Aug. 22nd	A_N e	11 11 4	...	...	...	...	Feeble, distant.
	M	11 40 15	19	3	...	...	
	F	12 34 0	...	...	...	...	
,, 22nd	A_N e	13 29 16	...	...	...	...	Very feeble.
	M	13 45 23	...	...	...	...	
	F	14 16 0	...	...	...	...	
,, 22nd	A_N i	21 44 17	...	...	...	...	Do.
	i	21 48 30	...	...	...	...	
	F	22 35 0	...	...	...	...	
,, 24th	A_N e	22 53 0	...	...	...	...	Tremors.
	f	23 23 0	...	...	...	...	
,, 25th	A_N e	4 37 0	...	...	...	...	Do.
	f	5 16 0	...	...	...	...	
,, 25th	A_N e	5 44 0	...	...	...	...	Do.
	f	6 23 0	...	...	...	...	
,, 25th	A_N P	7 56 45	...	...	...	3340	Great. Destructive in China. Epc:— 32°N., 103·5°E.
	PR_1	7 57 33	...	...	...	...	
	S	8 1 51	...	...	...	...	
	SR_1	8 3 23	...	...	...	...	
	L	8 5 37	...	...	...	...	
	M	8 7 33	18	857	...	...	
	F	Mixed up with after shock.					
,, 26th	A_N e	11 55 0	...	...	...	...	Tremors.
	f	12 14 0	...	...	...	...	
,, 26th	A_N e	13 16 0	...	...	...	...	Do.
	f	13 23 0	...	...	...	...	
,, 28th-29th.	A_N eP	22 34 26	...	...	...	12400	Great. Epc:— Near Sandwich Islands, 58°S., 27°W. (J.S.A.)
	PR_1	22 38 54	...	...	...	...	
	Sc PcS	22 45 0	...	...	...	...	
	PS	22 48 26	...	...	...	...	
	PPS	22 49 25	...	...	...	...	
	SR_1	22 54 25	...	...	...	...	
	L	23 12 20	...	...	...	...	
	M	23 41 17	17	61	...	...	
	F	2 59 0	...	...	...	...	
,, 29th	A_N e	15 10 23	...	...	...	...	Slight.
	e	15 20 11	...	...	...	...	
	F	16 27 0	...	...	...	...	
1933.		H. M. S.					
Sep. 2nd	A_N i	16 50 45	...	...	...	...	L-waves poorly developed.
	i	16 58 27	...	...	...	...	
	M	Movements small.					
	F	18 44 0	...	...	...	...	
,, 2nd	A_E i	16 50 45	...	...	...	...	
	i	16 58 27	...	...	...	...	Do.
	M	Movements small.					
	F	18 8 0	...	...	...	...	
	A_N e	1 40 0	...	...	...	...	Tremors.
	f	2 33 0	...	...	...	...	
	A_E e	1 49 0	...	...	...	...	Do.
	f	2 18 0	...	...	...	...	
,, 6th	A_N e	10 33 0	...	...	...	...	Do.
	f	10 58 0	...	...	...	...	
	A_E e	10 37 0	...	...	...	...	Do.
	f	10 55 0	...	...	...	...	
,, 6th	A_N e	17 37 28	...	...	...	...	Slight.
	M	17 59 20	15	4	...	...	
	F	18 11 0	...	...	...	...	
	A_E e	17 37 28	...	...	...	...	Do.
	M	Movements too small.					
	F	18 52 0	...	...	...	...	
,, 6-7th	A_N P	22 22 27	...	...	...	13300	Slight.
	S	22 35 57	...	...	...	...	L-waves poorly developed.
	M	23 20 27	17	3	...	...	
	F	0 49 0	...	...	...	...	Epc:— Pacific Ocean, 24°S., 178°W. (J.S.A.)
,, 6-7th	A_E P	22 22 27	...	...	...	...	
	S	22 35 57	...	...	...	13300	Do.
	M	Uncertain.					
	F	0 28 0	...	...	...	...	
,, 7th	A_N e	18 8 0	...	...	...	...	Tremors.
	f	18 32 0	...	...	...	...	
,, 7-8th	A_N e	23 14 0	...	...	...	...	Feeble.
	M	23 23 56	17	5	...	...	
	F	0 2 0	...	...	...	...	
,, 9th	A_N e	1 58 0	...	...	...	...	Tremors.
	f	2 4 0	...	...	...	...	
,, 9th	A_N e	4 23 0	...	...	...	...	Do.
	f	5 48 0	...	...	...	...	
Sept. 13th	A e	13 16 0	...	...	...	...	Tremors.
	f	14 32 0	...	...	...	...	
,, 14th	A_N e	22 53 0	...	...	...	...	Do.
	f	23 18 0	...	...	...	...	
,, 15th	A_N e	16 34 0	...	...	...	...	Do.
	f	17 9 0	...	...	...	...	
,, 15th	A_N e	20 6 0	...	...	...	...	Do.
	f	20 38 0	...	...	...	...	
,, 20th	A e	0 31 0	...	...	...	...	Do.
	f	0 53 0	...	...	...	...	
,, 20-21st	A_N e	23 42 3	...	...	...	...	Slight.
	i	23 48 48	...	...	...	...	
	M	0 5 13	14	3	...	...	
	F	0 40 0	...	...	...	...	
,, 20-21st	A_E i	23 42 3	...	...	...	...	Do.
	i	23 48 48	...	...	...	...	
	M	0 5 33	14	...	3	...	
	F	0 49 0	...	...	...	...	
,, 21st	A_N e	3 24 22	...	...	...	...	Very feeble, distant.
	M	3 53 22	13	2	...	...	
	F	4 24 0	...	...	...	...	
,, 21st	A_E e	3 24 42	...	...	...	...	Do.
	M	3 51 39	13	...	3	...	
	F	4 25 0	...	...	...	...	
,, 21st	A_N e	4 26 0	...	...	...	...	Tremors.
	f	4 52 0	...	...	...	...	
,, 21st	A_E e	4 26 0	...	...	...	...	Do.
	f	4 58 0	...	...	...	...	
,, 21st	A_N P	9 58 32	...	...	...	7290	Slight Epc:— Near Japan.
	eS	10 7 22	...	...	...	...	
,, 21st	L	10 22 13	...	...	...	...	
	M	10 29 28	13	5	...	...	
	F	11 30 0	...	...	...	...	
,, 21st	A_E P	9 58 32	...	...	...	7290	Do.
	S	10 7 22	...	...	...	...	
	L	10 22 13	...	...	...	...	
	M	10 27 58	13	...	3	...	
	F	11 38 0	...	...	...	...	

TABLE D 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.) △	Remarks.
1933.		H. M. S.					
Sep. 21st	A_N e	14 16 0	...	...	...	...	Tremors.
	f	14 33 0	...	...	...	...	
,, 21st	A_E e	14 17 0	...	...	...	...	Do.
	f	14 33 0	...	...	...	...	
,, 21st	A_N e	19 18 0	...	...	...	...	Do.
	f	19 33 0	...	...	...	...	
,, 21st	A_E e	19 19 0	...	...	...	...	Do.
	f	19 37 0	...	...	...	...	
,, 24th	A_N P	15 32 21	...	...	...	10000	Slight. Epc.:—Near Aleutian Islands, 51° N., 177° W, (U. S. C. G. S.).
	S	15 43 13	...	...	...	...	
	eL	16 4 0	...	...	...	...	
	M	16 14 18	20	14	...	...	
	F	18 14 0	...	...	...	...	
,, 24th	A_E P	15 32 21	...	...	...	10000	Do.
	S	15 42 48	...	...	...	...	
	eL	16 4 0	...	...	...	...	
	M	16 11 58	20	...	10	...	
	F	18 25 0	...	...	...	...	
,, 25th	A_N eP	13 55 7	...	...	...	5960	Slight.
	eS	14 2 41	...	...	...	...	
	eL	14 14 26	...	...	...	...	
	F	14 39 0	...	...	...	...	
,, 25th	A_E eP	13 55 7	...	...	...	5960	Do.
	eS	14 2 41	...	...	...	...	
	eL	14 14 26	...	...	...	...	
	F	14 42 0	...	...	...	...	
,, 25th	A_N P	18 56 29	...	...	...	2590	Moderate. Epc.:—Near Kokoshill range in China, 37° N., 87° E.
	S	19 0 40	...	...	...	...	
	SR_1	19 1 40	...	...	...	...	
	L	19 2 55	...	...	...	...	
	M	19 14 18	9	30	...	...	
	F	21 12 0	...	...	...	...	
,, 25th	A_E P	18 56 29	...	...	...	2590	Do.
	S	19 0 40	...	...	...	...	
	SR_1	19 1 35	...	...	...	...	
	L	19 2 52	...	...	...	...	
	M	19 4 26	10	...	22	...	
	F	21 9 0	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.) △	Remarks.
1933.		H. M. S.					
Sep. 27th	A_N e	21 53 36	...	...	...	...	Very feeble.
	F	22 56 0	...	...	...	...	
,, 27th	A_E e	21 53 36	...	...	...	...	Do.
	F	22 47 0	...	...	...	...	
,, 30th	A_N i	14 32 0	...	...	...	...	Feeble, distant.
	M	15 0 45	23	7	...	...	
	F	17 18 0	...	...	...	...	
,, 30th	A_E i	14 32 0	...	...	...	...	Do.
	M	15 2 41	20	...	5	...	
	F	17 21 0	...	...	...	...	
Oct. 1st	A_N e	2 59 0	...	...	...	...	Tremors.
	f	3 9 0	...	...	...	...	
,, 1st	A_E e	2 57 0	...	...	...	...	Do.
	f	3 9 0	...	...	...	...	
,, 2nd	A_N e	14 21 0	...	...	...	...	Do.
	f	15 25 0	...	...	...	...	
,, 2nd	A_E e	14 23 0	...	...	...	...	Do.
	f	15 35 0	...	...	...	...	
,, 3rd	A_N P^1	15 49 15	...	...	...	17200	Moderate. Epc.:—Pacific Ocean, West of Central America, 2° 5° S., 80° W. (J. S. A.)
	PR_1	15 52 48	...	...	...	...	
	SR_1	16 12 0	...	...	...	...	
	M	17 4 7	17	14	...	...	
	F	18 53 0	...	...	...	...	
,, 3rd	A_E P^1	15 49 15	...	...	...	17200	Do.
	PR_1	15 52 48	...	...	...	...	
	SR_1	16 12 0	...	...	...	...	
	M	17 3 26	17	...	23	...	
	F	19 6 0	...	...	...	...	
,, 3rd	A_N e	10 34 0	...	...	...	...	Tremors.
	f	11 15 0	...	...	...	...	
,, 3rd	A_N e	10 32 0	...	...	...	...	Do.
	f	11 12 0	...	...	...	...	
,, 3rd	A_N e	11 42 0	...	...	...	...	Do.
	f	13 0 0	...	...	...	...	
,, 3rd	A_E e	11 41 0	...	...	...	...	Do.
	f	13 0 0	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.) △	Remarks.
1933.		H. M. S.					
Oct. 3rd	A_N eP	18 48 55	...	...	...	6780	Slight.
	S	18 57 10	...	...	...	...	
	eL	19 10 0	...	...	...	...	
	M	19 16 40	15	3	...	...	
	F	19 48 0	...	...	...	...	
,, 3rd	A_E P	18 48 55	...	...	...	6780	Do.
	S	18 57 10	...	...	...	...	
	eL	19 10 0	...	...	...	...	
	M	19 17 14	15	...	3	...	
	F	19 49 0					
,, 4th	A_N e	16 38 0	...	...	...	...	Tremors.
	f	17 12 0	...	...	...	...	
,, 4th	A_E e	16 38 0	...	...	...	...	Do.
	f	17 12 0	...	...	...	...	
,, 5th	A_N e	12 20 0	...	...	...	...	Do.
	f	12 53 0	...	...	...	...	
,, 5th	A_E e	12 20 0	...	...	...	...	Do.
	f	12 50 0	...	...	...	...	
,, 5th	A_N P	13 34 29	...	...	...	2370	Moderate.
	S	13 38 24	...	...	...	...	Epc.:—Northern Persia, 35° N., 57° E.
	SR_1	13 39 22	...	...	...	...	
	M	13 44 33	13	36	...	...	
	F	15 22 0	...	...	...	...	
,, 5th	A_E P	13 34 29	...	...	...	2370	Do.
	S	13 38 24	...	...	...	...	
	SR_1	13 39 21	...	...	...	...	
	L	13 40 25	...	...	...	...	
	M	13 42 36	17	...	70	...	
	F	15 18 0	...	...	...	...	
,, 5th	A_N e	16 35 0	...	...	...	...	Tremors.
	f	17 0 0	...	...	...	...	
,, 5th	A_E e	16 35 0	...	...	...	...	Do.
	f	17 1 0	...	...	...	...	
,, 7th	A_E e	2 55 0	...	...	...	...	Do.
	f	3 6 0	...	...	...	...	
,, 7th	A_E e	2 56 0	...	...	...	...	Do.
	f	3 8 0	...	...	...	...	

TABLE D 2—*contd.*

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.) △	Remarks.
1933.		H. M. S.					
Oct. 9th	A_N e	9 55 0	...	...	...	...	Tremors.
	f	10 1 0	...	...	...	...	
	A_E e	9 55 0	...	...	...	...	Do.
	f	10 1 0	...	...	...	...	
„ 10th	A_N e	12 36 0	...	...	...	...	Do
	f	13 17 0	...	...	...	...	
„ 11th	A_N e	1 19 0	...	...	...	...	Do.
	f	1 43 0	...	...	...	...	
	A_E e	1 21 0	...	...	...	...	Do.
	f	1 43 0	...	...	...	...	
„ 13th	A_N e	11 49 0	...	...	...	...	Do.
	f	11 56 0	...	...	...	...	
„ 13th	A_E e	11 50 0	...	...	...	...	Do.
	f	11 58 0	...	...	...	...	
„ 14th	A_N e	22 32 19	...	...	...	...	Feeble, distant.
	M	23 18 49	19	5	...	...	
	F	23 52 0	...	...	...	...	
„ 14th	A_E e	22 32 19	...	...	...	...	Do.
	M	23 19 30	19	...	5	...	
	F	23 49 0	...	...	...	...	
„ 16th	A_N e	3 37 0	...	...	...	...	Tremors.
	f	3 51 0	...	...	...	...	
„ 16th	A_E e	3 37 0	...	...	...	...	Do.
	f	3 53 0	...	...	...	...	
„ 16th	A_N P	4 38 18	...	...	...	3220	Slight.
	S	4 43 19	...	...	...	...	
	L	4 46 30	...	...	...	...	
	M	4 47 12	7	8	...	...	
	F	5 15 0	...	...	...	...	
„ 16th	A_E eP	4 38 18	...	...	...	3220	Do.
	S	4 43 19	...	...	...	...	
	L	4 46 15	...	...	...	...	
	M	4 48 14	9	...	5	...	
	F	5 19 0	...	...	...	...	
„ 16th	A_N e	11 20 0	...	...	...	...	Tremors.
	f	11 36 0	...	...	...	...	
Oct. 16th	A_E e	11 21 0	...	...	...	...	Tremors.
	f	11 35 0	...	...	...	...	
„ 17th	A_N e	12 36 0	...	...	...	...	Do.
	f	13 5 0	...	...	...	...	
„ 17th	A_E e	12 36 0	...	...	...	...	Do.
	f	13 12 0	...	...	...	...	
„ 19th	A_N e	5 31 11	...	...	...	...	Very feeble, masked by micro-seisms
	F	5 49 0	...	...	...	...	
„ 19th	A_E e	5 31 11	...	...	...	...	Do.
	F	5 50 0	...	...	...	...	
„ 19th	A_N e	6 5 0	...	...	...	...	Tremors.
	f	6 11 0	...	...	...	...	
„ 19th	A_E e	6 5 0	...	...	...	...	Do.
	f	6 11 0	...	...	...	...	
„ 21st	A_N P	2 54 52	.	...	...	6890	Slight.
	S	3 3 15	...	...	...	...	
	M	3 24 15	14	3	...	...	
	F	4 0 0	...	...	...	...	
„ 21st	A_E P	2 54 52	...	...	...	6890	Do.
	S	3 3 15	...	...	...	...	
	M	3 26 41	15	...	1	...	
	F	3 56 0	...	...	...	...	
„ 21st	A_N e	7 59 0	...	...	...	...	Tremors.
	f	8 14 0	...	...	...	...	
„ 21st	A_E e	7 59 0	...	...	...	...	Do.
	f	8 14 0	...	...	...	...	
„ 21st	A_N e	8 25 0	...	...	...	...	Do.
	f	8 43 0	...	...	...	...	
„ 21st	A_N e	8 27 0	...	...	...	...	Do.
	f	8 38 0	...	...	...	...	
„ 22nd	A_N e	0 45 0	...	...	...	...	Do.
	f	1 36 0	...	...	...	...	
„ 22nd	A_E e	0 45 0	...	...	...	...	Do.
	f	1 33 0	...	...	...	...	
Oct. 22nd	A_N e	12 14 6	...	...	...	...	Slight, very distant.
	M	12 35 41	15	3	...	...	
	F	13 11 0	...	...	...	...	
„ 22nd	A_E e	12 14 6	...	...	...	...	Do.
	M	12 39 29	14	...	3	...	
	F	13 11 0	...	...	...	...	
„ 22nd	A_N e	14 6 6	...	...	...	...	Feeble, distant.
	M	14 15 48	9	3	...	...	
	F	14 30 0	...	...	...	...	
„ 22nd	A_E e	14 6 6	...	...	...	...	Do.
	L	14 12 45	...	...	...	...	
	M	14 45 10	9	...	2	...	
	F	14 29 0	...	...	...	...	
„ 23rd	A_N e	4 59 0	...	...	...	...	Tremors.
	f	5 31 0	...	...	...	...	
„ 23rd	A_E e	5 0 0	...	...	...	...	Do.
	f	5 27 0	...	...	...	...	
„ 23rd	A_N e	12 59 0	...	...	...	...	Do.
	f	13 17 0	...	...	...	...	
„ 23rd	A_E e	12 59 0	...	...	...	...	Do.
	f	13 20 0	...	...	...	...	
„ 23rd	A_N e	13 42 20	...	...	...	...	Feeble, distant.
	i	13 50 4	...	...	...	...	
	M	14 6 8	11	3	...	...	
	F	14 59 0	...	...	...	...	
„ 23rd	A_E e	13 42 20	...	...	...	...	Do.
	i	13 50 4	...	...	...	...	
	M	14 3 42	11	...	3	...	
	F	15 4 0	...	...	...	...	
„ 23rd	A_N e	22 32 0	...	...	...	...	Tremors.
	f	22 47 0	...	...	...	...	
„ 23rd	A_E e	22 32 0	...	...	...	...	Do.
	f	22 46 0	...	...	...	...	
„ 24th	A_N e	5 33 19	...	...	...	...	Very feeble.
	e'	5 37 33	...	...	...	...	
	M	5 45 7	7	1	...	...	
	F	6 0 0	...	...	...	...	

TABLE D 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	AMPLITUDE (μ). A N / A E	Distance (Km.) △	Remarks.
1933.		H. M. S.				
Oct. 24th	A_E i	5 33 19	...	... ...	...	Very feeble.
	i	5 37 33	...	... ...	...	
	F	5 59 0	...	... ...	...	
,, 24th	A_N e	10 42 0	...	... ...	...	Tremors.
	f	10 45 0	...	... ...	...	
,, 24th	A_E e	10 42 0	...	... ...	...	Do.
	f	10 45 0	...	... ...	...	
,, 25th 26th	A_N e	23 47 17	...	... ...	16000	Slight Epc: — South America. 22°S, 68° W. (J. S. A.)
	M	0 42 7	19	4 ...	...	
	F	1 52 0	...	... ...	...	
,, 25th 26th	A_E P¹	23 47 17	...	... ...	16000	Do.
	Sc P eP	23 51 30	...	... ...	...	
	F Sc PcS	0 0 34	...	... ...	...	
	M	0 39 5	20	... 7	...	
	F	2 4 0	...	... ...	...	
,, 25th 26th	A_N eP	7 3 23	...	... ...	2170	Feeble.
	S	7 7 0	...	... ...	...	
	F	7 26 0	...	... ...	...	
,, 25th 26th	A_E eP	7 3 23	...	... ...	2170	Do.
	S	7 7 0	...	... ...	...	
	F	7 31 0	...	... ...	...	
,, 26th	A_N e	8 43 0	...	... ...	...	Tremors.
	f	8 59 0	...	... ...	...	
,, 26th	A_E e	8 47 0	...	... ...	...	Do.
	f	9 3 0	...	... ...	...	
,, 26th	A_N e	12 28 0	...	... ...	...	Feeble.
	M	13 34 0	17	5 ...	...	
	F	14 56 0	...	... ...	...	
,, 26th	A_E e	12 28 0	...	... ...	...	Do.
	M	13 34 0	17	... 4	...	
	F	14 57 0	...	... ...	...	
,, 26th	A_N eP	20 53 36	...	... ...	...	Do.
	M	20 58 59	7	1 ...	...	
	F	21 4 0	...	... ...	...	
,, 26th	A_E eP	20 53 36	...	... ...	...	Do.
	F	21 7 0	...	... ...	...	
,, 30th	A_N e	7 21 0	...	... ...	...	Tremors
	f	8 38 0	...	... ...	...	
Oct. 30th	A_E e	7 17 21	...	... ...	...	Tremors.
	F	8 53 0	...	... ...	...	
,, 30th	A_N e	11 43 0	...	... ...	...	Do.
	f	11 55 0	...	... ...	...	
,, 30th	A_E e	11 43 0	...	... ...	...	Do.
	f	11 51 0	...	... ...	...	
Nov. 2nd	A_N P	12 39 47	...	... ...	11000	Slight. Epc:— North Pacific Ocean, 45°N., 168°W. (J.S.A.)
	S(?)	12 51 21	...	... ...	...	
	eL	13 13 0	...	... ...	...	
	M	13 21 43	21	8 ...	...	
	F	15 17 0	...	... ...	...	
,, 2nd	A_E P	12 39 47	...	... ...	11000	Do.
	S(?)	12 51 21	...	... ...	...	
	eL	13 11 54	...	... ...	...	
	M	13 21 43	21	... 9	...	
	F	15 26 0	...	... ...	...	
,, 2nd	A_N e	13 7 30	...	... ...	...	Very feeble.
	e	13 11 26	...	... ...	...	
	M	13 17 26	13	2 ...	...	
	F	13 35 0	...	... ...	...	
,, 3rd	A_E e	13 7 30	...	... ...	...	Do.
	e	13 11 26	...	... ...	...	
	L	13 14 4	...	... ...	...	
	M	13 16 42	11	... 2	...	
	F	13 36 0	...	... ...	...	
,, 5th	A P	20 32 34	...	... ...	2880	Slight. Epc:— North-east frontier of Burma, 25°N., 98°E. Nanking △ = 2270 kms.
	S	20 37 3	...	... ...	...	
	L	20 40 21	...	... ...	...	
	F	21 21 0	...	... ...	...	
,, 5th	A_E P	20 32 34	...	... ...	2880	Do.
	S	20 37 3	...	... ...	...	
	L	20 40 21	...	... ...	...	
	F	21 21 0	...	... ...	...	
,, 6th	A_N e	7 19 0	...	... ...	...	Tremors.
	f	7 43 0	...	... ...	...	
,, 6th	A_E e	7 19 0	...	... ...	...	Do.
	f	7 50 0	...	... ...	...	
,, 7th	A_N e	6 51 0	...	... ...	...	Do.
	f	7 11 0	...	... ...	...	
Nov. 7th	A_E e	6 53 0	...	... ...	...	Tremors.
	f	7 10 0	...	... ...	...	
,, 7th	A_N P	11 14 45	...	... ...	2320	Slight. Epc:— Near Arakan Coast, 20°N., 93°E. Nanking △ = 2974 kms. Calcutta △ = 560 kms.
	S	11 18 33	...	... ...	...	
	L	11 20 33	...	... ...	...	
	M	11 22 31	7	4 ...	...	
	F	11 40 0	...	... ...	...	
,, 7th	A_E P	11 14 45	...	... ...	2320	Do.
	S	11 18 33	...	... ...	...	
	L	11 20 33	...	... ...	...	
	M	11 22 31	8	... 3	...	
	F	11 38 0	...	... ...	...	
,, 8th	A_N Pe	14 24 29	...	... ...	1500	Slight. Probable origin in Nepal. Agra △ = 500 kms.
	S	14 27 6	...	... ...	...	
	L	14 28 14	...	... ...	...	
	F	14 42 0	...	... ...	...	
,, 8th	A_E P	14 24 29	...	... ...	1500	Do.
	S	14 27 6	...	... ...	...	
	L	14 28 14	...	... ...	...	
	F	14 42 0	...	... ...	...	
,, 14th	A_N e	14 25 0	...	... ...	...	Tremors.
	f	14 59 0	...	... ...	...	
,, 14th	A_E e	14 25 0	...	... ...	...	Do.
	F	14 41 0	...	... ...	...	
,, 15th	A_N e	5 2 0	...	... ...	...	Do.
	f	5 22 0	...	... ...	...	
,, 15th	A_E e	5 3 0	...	... ...	...	Do.
	f	5 21 0	...	... ...	...	
,, 18th	A_N e	4 17 0	...	... ...	...	Do.
	f	4 28 0	...	... ...	...	
,, 18th	A_E e	4 17 0	...	... ...	...	Do.
	f	4 26 0	...	... ...	...	
,, 18th	A_N	17 12 0	...	... ...	...	Do.
	f	18 20 0	...	... ...	...	
,, 18th	A_E e	17 12 0	...	... ...	...	Do
	f	18 20 0	...	... ...	...	

TABLE D 2—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.) △	Remarks.
1933.		H. M. S.					
Nov. 19th	A_N e	3 28 0	...	...	...	...	Tremors.
	f	5 17 0	...	...	...	...	
	A_E e	3 28 0	...	...	...	...	Do.
	f	5 17 0	...	...	...	...	
,, 19th	A_N P	9 14 4	...	...	...	2880	Slight. Epc.:—North-east frontier of Burma. Same origin as on the 5th November.
	S	9 18 34	...	...	...	...	
	L	9 21 50	...	...	...	...	
	F	9 54 0	...	...	...	...	
,, 19th	A_E P	9 14 4	...	...	...	2860	Do.
	S	9 18 34	...	...	...	...	
	L	9 21 50	...	...	...	...	
	F	9 50 0	...	...	...	...	
,, 20th-21st.	A_N P	23 34 11	...	...	...	9200	Great shock. Epc.—Baffin Bay.
	S	23 44 30	...	...	...	...	
	L	0 4 16	...	...	...	...	
	M	0 16 32	22	101	...	...	
	F	3 26 0	...	...	...	...	
,, 20th-21st.	A_E P	23 34 11	...	...	...	9200	Do.
	S	23 44 30	...	...	...	...	
	L	0 4 16	...	...	...	...	
	M	0 9 8	21	...	80	...	
	F	3 18 0	...	...	...	...	
,, 22nd	A_N e	1 4 0	...	...	...	...	Tremors.
	f	2 47 0	...	...	...	...	
,, 22nd	A_E e	1 1 0	...	...	...	...	Do.
	f	2 48 0	...	...	...	...	
,, 22nd	A_N P	12 54 37	...	...	...	8830	Slight. Epc.—East of New Guinea, 3°S. 150°E. (J.S.A.)
	S	13 4 45	...	...	...	...	
	L	13 24 15	...	...	...	...	
	M	13 28 23	23	14	...	...	
	F	16 35 0	...	...	...	...	
,, 22nd	A_E P	12 54 37	...	...	...	8830	Do.
	S	13 4 45	...	...	...	...	
	L	13 22 15	...	...	...	...	
	M	13 32 37	23	...	10	...	
	F	15 47 0	...	...	...	...	
,, 22nd	A_N e	18 24 0	...	...	...	...	Tremors
	f	18 44 0	...	...	...	...	
,, 22nd	A_E e	18 30 0	...	...	...	...	Do.
	f	18 46 0	...	...	...	...	
1933.		H. M. S.					
Nov. 22nd	A_N e	22 48 0	...	...	...	...	Tremors.
	f	23 28 0	...	...	...	...	
,, 22nd	A_E e	22 48 0	...	...	...	...	Do.
	f	23 29 0	...	...	...	...	
,, 23rd	A_N e	18 53 0	...	...	...	...	Do.
	f	19 57 0	...	...	...	...	
	A_E e	18 53 0	...	...	...	...	Do.
	f	20 0 0	...	...	...	...	
,, 23rd	A_N e	20 16 0	...	...	...	...	Do.
	f	20 54 0	...	...	...	...	
,, 23rd	A_E e	20 14 0	...	...	...	...	Do.
	f	20 48 0	...	...	...	...	
,, 24th	A_N e	4 3 0	...	...	...	...	Do.
	f	4 19 0	...	...	...	...	
,, 24th	A_E e	4 3 0	...	...	...	...	Do.
	f	4 16 0	...	...	...	...	
,, 24th	A_N e	8 16 0	...	...	...	...	Do.
	f	8 24 0	...	...	...	...	
,, 24th	A_E e	8 16 0	...	...	...	...	Do.
	f	8 24 0	...	...	...	...	
,, 25th	A_N e	1 18 0	...	...	...	...	Do.
	f	1 23 0	...	...	...	...	
,, 25th	A_E e	1 18 0	...	...	...	...	Do.
	f	1 30 0	...	...	...	...	
,, 28th	A_N e	8 22 0	...	...	...	...	Do.
	f	8 39 0	...	...	...	...	
,, 28th	A_E e	8 22 0	...	...	...	...	Do.
	f	8 40 0	...	...	...	...	
,, 28th	A_N P	11 13 51	...	...	...	2430	Moderate. Epic.—North Persia, 35° N. 57° E. Nanking △ = 5720 kms.
	S	11 17 49	...	...	...	...	
	L	11 19 59	...	...	...	...	
	M	11 27 19	11	27	...	...	
	F	13 10 0	...	...	...	...	
,, 28th	A_E P	11 13 51	...	...	...	2430	Do.
	S	11 17 49	...	...	...	...	
	L	11 19 59	...	...	...	...	
	M	11 25 19	12	...	26	...	
	F	13 17 0	...	...	...	...	
Nov. 28th	A_N e	16 8 0	...	...	...	...	Tremors.
	f	16 32 0	...	...	...	...	
,, 28th	A_E e	16 8 0	...	...	...	...	Do.
	f	16 30 0	...	...	...	...	
,, 29th	A_N P	3 4 7	...	...	...	...	Very feeble, distant.
	S	3 8 30	...	...	...	...	
	M	3 12 15	8	2	...	...	
	F	3 26 0	...	...	...	...	
,, 29th	A_E P	3 4 7	...	...	...	...	Do.
	S	3 8 30	...	...	...	...	
	M	3 13 45	7	...	1	...	
	F	3 26 0	...	...	...	...	
,, 29th	A_N e	6 24 0	...	...	...	...	Tremors.
	f	7 4 0	...	...	...	...	
,, 29th	A_E e	6 23 0	...	...	...	...	Do.
	f	7 4 0	...	...	...	...	
Dec. 1st	A_N e	10 48 0	...	...	...	...	Do.
	f	11 4 0	...	...	...	...	
,, 1sth	A_E e	10 48 0	...	...	...	...	Do.
	f	11 2 0	...	...	...	...	
,, 2nd	A_N e	2 19 22	...	...	...	...	Very feeble, distant.
	F	2 50 0	...	...	...	...	
,, 2nd	A_E e	Lost while changing paper.					
	M	2 25 30	...	...	...	...	Do.
	F	2 45 0	...	...	...	...	
,, 2nd	A_N eP	5 34 45	...	...	...	...	Do.
	M	6 19 30	15	3	...	...	
	F	7 16 0	...	...	...	...	
,, 2nd	A_E eP	5 34 45	...	...	...	...	Do.
	M	6 19 45	15	...	2	...	
	F	7 7 0	...	...	...	...	
,, 2nd	A_N e	8 52 0	...	...	...	...	Tremors.
	f	9 31 0	...	...	...	...	
,, 2nd	A_E e	8 51 0	...	...	...	...	Do.
	f	9 32 0	...	...	...	...	
,, 2nd	A_N e	20 26 17	...	...	...	...	Feeble, distant.
	M	21 56 40	15	3	...	...	
	F	22 52 0	...	...	...	...	

TABLE D 2—*concld.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks
1933.		H. M. S.					
Dec. 3rd	A_N e	13 20 0	...	...	...	...	Tremors.
	f	13 39 0	...	...	...	...	
	A_E e	13 19 0	...	...	...	...	
,, 3rd	f	13 36 0	...	...	...	...	
	A_N P	14 45 13	...	...	...	2200	Slight. Origin in Assam near Cherrapunji hills. Felt at Cherrapunji, Shillong and Gauhati.
,, 4th	S	14 48 49	...	...	...		
	F	16 20 0	...	...	...	...	
,, 4th.	A_N e	19 34 27	...	...	...	...	Feeble, very distant.
	e	19 43 57	...	...	...	...	
	F	20 47 0	...	...	...	...	
,, 6th	A_E e	0 7 0	...	...	...	...	Tremors.
	f	0 28 0	...	...	...	...	
,, 9th	A_E eP	7 56 14	...	...	...	1850	Slight. Probable origin in Afghanistan.
	S	7 59 29	...	...	...	...	
	eL	8 1 0	...	...	...	...	
	F	8 36 0	...	...	...	...	
,, 12th	A_N e	3 8 0	...	...	...	...	Tremors.
	f	3 18 0	...	...	...	...	
,, 12th	A_E e	3 8 0	...	...	...	...	Do.
	f	3 18 0	...	...	...	...	
,, 12th	A_N i	5 26 11	...	...	...	...	Very feeble, distant.
	i	5 30 6	...	...	...	...	
	M	5 40 37	...	...	...	...	
	F	6 0 0	...	...	...	...	
,, 12th	A_E i	5 26 11	...	...	...	...	Do.
	i	5 30 6	...	...	...	...	
	M	5 38 52	...	...	...	...	
	F	5 53 0	...	...	...	...	
,, 12th	A_N P	14 23 37	...	...	...	9440	Slight. Epc:— East New Guinea, 6° S., 153°E. Perth (S-P) △ = 4340 kms Nanking △ = 5300 kms Do.
	Sc Pc S	14 33 45	...	...	...	...	
	SR1	14 39 45	...	...	...	...	
	M	15 5 32	18	4	...	...	
	F	16 52 0	...	...	...	...	
,, 12th	A_E P	14 23 37	...	...	...	9440	
	Sc Pc S	14 33 45	...	...	...	...	
	SR1	14 39 45	...	...	...	...	
	M	15 3 47	19	...	5	...	
	F	17 9 0	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks
1933.		H. M. S.					
Dec. 13th	A_N P	21 43 9	...	...	...	16350	Slight. Epc:— Pacific Ocean off Central America, 18° N., 140° W. (U. S. C.G.S.)
	PR1	21 46 27	...	...	...	...	
	Sc Pc PcS	21 53 24	...	...	...	...	
	SR1	22 5 43	...	...	...	...	
	M	23 4 43	17	5	...	...	
	F	23 52 0	...	...	...	...	
,, 13th	A_E P	21 43 9	...	...	...	16350	Do.
	eL	22 34 0	...	...	...	...	
	M	22 55 58	16	...	6	...	
	F	23 57 0	...	...	...	...	
,, 14th	A_N e	8 24 0	...	...	...	...	Tremors.
	f	8 56 0	...	...	...	...	
	A_E e	8 27 0	...	...	...	...	Do.
	f	8 56 0	...	...	...	...	
,, 14th	A_N eP	12 47 17	...	...	...	2270	Slight, Epc:— North of Andaman Islands 14° N., 94° E. (Tentative),
	eS	12 51 3	...	...	...	...	
	L	12 52 56	...	...	...	...	
	M	12 54 26	7	4	...	...	
	F	13 10 0	...	...	...	...	
	A_E eP	12 47 17	...	...	...	...	
	eS	12 51 3	...	...	...	...	
	L	12 52 56	...	...	...	...	
	M	12 54 50	7	...	3	...	
	F	13 7 0	...	...	...	...	
,, 14th	A_N P	18 56 21	...	...	...	2340	Slight. Epc:— Same as in previous shock.
	S	19 0 14	...	...	...	...	
	L	19 2 25	...	...	...	...	
	F	19 35 0	...	...	...	...	
,, 14th	A_E P	18 56 21	...	...	...	2340	Do.
	S	19 0 14	...	...	...	...	
	L	19 2 25	...	...	...	...	
	F	19 42 0	...	...	...	...	
,, 17th	A_N e	23 10 0	...	...	...	...	Tremors.
	f	23 33 0	...	...	...	...	
,, 17th	A_E e	23 15 0	...	...	...	...	Do.
	f	23 33 0	...	...	...	...	
,, 18th	A_N e	10 29 0	...	...	...	...	Feeble distant.
	M	10 38 26	11	1	...	...	
	F	11 12 0	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Distance (Km.)	Remarks
1933.		H. M. S.					
Dec. 18th	A_E e	10 29 0	...	...	...	...	Feeble distant.
	M	10 37 7	11	...	1	...	
	F	11 11 0	...	...	...	...	
,, 19th	A_N i	5 50 53	...	...	...	...	Very feeble, very distant.
	i	6 0 4	...	...	...	...	
	F	6 39 0	...	...	...	...	
,, 24th	A_N e	10 57 56	...	...	...	...	Do.
	i	11 7 37	...	...	...	...	
	F	12 33 0	...	...	...	...	
,, 24th	A_E e	10 57 56	...	...	...	...	Do.
	i	11 7 37	...	...	...	...	
	F	12 40 0	...	...	...	...	
,, 24th	A_N e	18 9 0	...	...	...	...	Tremors.
	f	18 21 0	...	...	...	...	
	A_E e	18 9 0	...	...	...	...	Do.
	f	18 20 0	...	...	...	...	
,, 26th	A_N e	10 22 0	...	...	...	...	Do.
	f	10 47 0	...	...	...	...	
,, 26th	A_E e	10 24 0	...	...	...	...	Do.
	f	10 44 0	...	...	...	...	
,, 26th	A_N e	22 37 0	...	...	...	...	Do.
	f	22 55 0	...	...	...	...	
	A_E e	22 37 0	...	...	...	...	Do.
	f	22 55 2	...	...	...	...	
,, 27th	A_N e	11 47 0	...	...	...	...	Do.
	f	12 39 0	...	...	...	...	
	A_E e	11 47 0	...	...	...	...	Do.
	f	12 52 0	...	...	...	...	
,, 31st	A_N e	12 50 0	...	...	...	...	Do.
	f	13 17 0	...	...	...	...	
,, 31st	A_E e	12 49 0	...	...	...	...	Do.
	f	13 23 0	...	...	...	...	

S. C. ROY,
Meteorologist,
Bombay.

STATION—CALCUTTA (ALIPORE).

$\varphi = 22° 32'$ N ; $\lambda = 88° 20'$ E ; $h = 7{\cdot}1$ metres above M. S. L. *Subsoil*—Alluvial.

Apparatus.—Milne-Shaw Seismograph (A_N component).

(Exposed in constant temperature room).

TABLE D 3.

V_m	T	G	$\frac{r}{To^2}$	Steady mass (K9).	Paper speed m m/min.	Up.
250	12 sec.	20 : 1	·0005 approx.	0·45	8	North.

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude $\frac{(\mu)}{A_N}$	Distance Δ (Km.)	Remarks.
1933.		H. M. S.				
Jan. 1st	P	9 3 1	3	...	3350	Slight.
	S	9 8 11	4	...	...	
	L	9 13 11	6	...	...	
	F	?	...	...	...	
,, 1st	eP	19 54 16	?	...	300	Do.
	S	?	?	...	...	
	L	19 55 1	4	...	...	
	F	?	...	...	...	
,, 3rd	eP	15 33 4	3	...	6900	Do.
	S	15 41 33	5	...	...	
	L	15 54 49	10	...	...	
	F	16 42 19	...	...	...	
,, 4th	P	4 11 50	4	...	9600	Do.
	S	4 22 28	7	...	...	
	L	4 44 50	10	...	...	
	F	5 25 35	...	...	...	
,, 7th	P	4 15 40	2	...	5600	Moderate
	S	4 22 52	5	...	...	
	L	4 33 3	13	...	...	
	M	4 38 23	...	27	...	
	F	6 38 33	...	...		
,, 8th	P	6 1 32	4	...	6250	Slight.
	S	6 9 27	6	...	...	
	L	6 21 27	13	...	...	
	F	?	...	...	...	
,, 9th	P	2 6 7	4	...	2200	Moderate
	S	2 9 52	8	...	...	
	L	?	...	...	...	
	M	?	...	...	...	
	F	3 40 7	...	...	...	
1933.		H. M. S.				
Jan. 9th	P	8 51 2	2	...	2100	Slight.
	S	8 54 32	5	...	...	
	L	8 56 35	6	...	...	
	F	?	...	...	...	
,, 17th	P	16 2 33	5	...	2100	Do.
	S	16 6 15	8	...	...	
	L	16 8 23	10	...	...	
	F	16 40 53	...	...	...	
,, 17th	P	18 57 6	2	...	7050	Do.
	S	19 5 40	5	...	...	
	L	19 19 40	15	...	...	
	F	20 14 40	...	...	...	
,, 20th	eP	12 16 31	?	...	1650	Do.
	S	12 19 13	3	...	...	
	L	12 20 55	5	...	...	
	F	12 39 55	...	...	...	
,, 21st	P	16 28 6	4	...	3700	Do.
	S	16 33 26	7	...	...	
	L	16 38 26	10	...	...	
	F	?	...	...	...	
,, 21st	P	19 31 3	4	...	6250	Great.
	S	19 39 5	10	...	...	
	L	19 50 26	16	...	...	
		19 54 31	...	151	...	
	F	21 1 31	...	...		
,, 23rd	P	0 9 41	2	...	1200	Slight.
	S	0 11 51	5	...	...	
	L	0 12 41	8	...	...	
	F	0 28 11	...	...	...	
1933.		H. M. S.				
Jan. 24th	P	4 53 30	2	...	960	Slight.
	S	4 55 18	3	...	...	
	L	4 56 0	5	...	...	
	M	4 56 50	...	33	...	
	F	5 16 40	...	...	...	
,, 26th	P	22 37 32	?	...	450	Do.
	S	22 38 17	3	...	...	
	L	22 38 39	5	...	...	
	F	23 ? 9	...	...	...	
,, 30th	eP	20 31 12	?	...	2100	Do.
	S	20 34 49	4	...	...	
	L	20 36 42	5	...	...	
	F	?	...	...	...	
Feb. 3rd	P	22 20 57	4	...	6400	Do.
	F	22 28 51	6	...	...	
	L	22 42 32	14	...	...	
	F	23 37 47	...	...	...	
,, 13th	P	2 24 26	4	...	2650	Moderate
	S	2 28 46	6	...	...	
	eL	2 31 28	10	...	...	
	F	3 43 46	...	...	...	
,, 13th	P	4 28 32	3	...	2300	Slight.
	S	4 32 24	5	...	...	
	L	4 34 17	8	...	...	
	F	5 8 17	...	...	...	
,, 21st	eP	19 10 27	5	...	3000	Do.
	S	19 15 8	6	...	...	
	L	19 18 36	10	...	...	
	F	12 51 16	...	...	...	

TABLE D 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) / A_N	Distance Δ (Km.).	Remarks.
1933.		H. M. S.				
Feb. 22nd	P	18 1 6	4	...	2400	Slight.
	S	18 5 1	6	...	...	
	L	18 7 10	8	...	...	
	F	18 45 50	...	...	...	
,, 23rd	P	8 28 51	5	...	16000	Moderate.
	S	8 42 51	9	...	...	
	L	9 27 9	18	...	...	
	M	9 34 24	...	29	...	
	F	11 24 49	...	...	...	
March 2nd	P	17 40 14	10	...	5450	Very great Japan Earthquake.
	S	17 47 35	15	...	...	
	L	17 57 42	22	...	...	
	M	18 2 8	...	162	...	
	F	22 28 19	...	...	...	
,, 3rd	P	9 18 24	3	...	5450	Slight.
	S	9 25 39	5	...	...	
	L	9 36 24	10	...	...	
	F	?	...	...	...	
,, 3rd	P	16 36 49	?	...	300	Do.
	S	16 37 34	?	...	...	
	L	16 37 49	3	...	...	
	F	?	...	...	...	
,, 5th	P	8 26 14	3	...	2550	Do.
	S	8 30 14	5	...	...	
	L	8 32 59	7	...	...	
	F	9 21 59	...	...	...	
,, 11th	P	14 31 6	5	...	6000	Do.
	S	14 38 38	7	...	...	
	L	14 50 23	13	...	...	
	F	16 21 33	...	...	...	
,, 11th	P	19 40 48	4	...	2400	Do.
	S	19 44 49	5	...	...	
	L	19 47 26	7	...	...	
	F	21 5 20	...	...	...	
,, 12th	eP	0 4 10	2	...	3500	Do.
	S	0 9 27	6	...	...	
	L	0 14 8	10	...	...	
	F	?	...	...	...	
,, 14th	P	2 5 55	2	...	480	Do.
	S	2 6 42	3	...	...	
	L	2 7 0	5	...	...	
	F	?		...	...	
,, 17th	P	16 5 37	5	...	7700	Moderate.
	S	16 14 37	7	...	...	
	L	16 31 7	16	...	...	
	M	16 35 57	...	40	...	
	F	18 40 37	...	...	...	
1933.		H. M. S.				
Mar. 17th	P	19 40 19	5	...	4800	Moderate.
	S	19 46 49	6	...	...	
	L	19 54 39	15	...	...	
	M	20 2 24	...	53	...	
	F	21 40 54	...	...	...	
,, 18th	P	2 32 27	3	...	7200	Slight.
	S	2 41 12	5	...	...	
	L	2 55 16	14	...	...	
	F	4 1 46	...	...	...	
,, 22nd	P	2 28 4	4	...	2900	Do.
	S	2 32 34	6	...	...	
	L	2 36 14	8	...	...	
	F	?	...	...	...	
,, 23rd	P	17 44 35	3	...	2250	Do.
	S	17 48 17	5	...	...	
	L	18 50 47	?	...	...	
	F	?	...	...	...	
,, 30th	P	20 47 46	4	...	1500	Do.
	S	20 50 14	6	...	...	
	L	20 51 42	8	...	...	
	F	21 22 22	...	...	...	
,, 31st	P	22 2 51	4	...	1900	Do.
	S	22 6 11	7	...	...	
	L	22 7 56	10	...	...	
	F	22 39 41	...	...	...	
April 9th	P	2 55 32	4	...	5300	Do.
	S	3 2 38	6	...	...	
	L	3 11 44	10	...	...	
	F	?	...	...	...	
,, 16th	P	19 27 19	4	...	2700	Do.
	S	19 31 42	5	...	...	
	L	19 34 57	7	...	...	
	F	20 32 27	...	...	...	
,, 17th	P	4 18 54	2	...	560	Do.
	S	4 19 46	4	...	...	
	L	4 20 16	7	...	...	
	F	?	...	...	...	
,, 19th	P	6 50 46	5	...	3500	Moderate.
	S	6 56 3	7	...	...	
	L	7 1 20	10	...	...	
	M	7 3 20	...	43	...	
	F	8 2 20	...	...	...	
,, 23rd	P	6 6 59	5	...	6550	Do.
	S	6 15 10	7	...	...	
	L	6 27 21	14	...	...	
	M	6 29 31	...	19	...	
	F	?	...	...	...	
1933.		H. M. S.				
Apr. 23rd	P	7 21 3	5	...	6250	Moderate.
	S	7 28 53	7	...	...	
	L	7 40 53	14	...	...	
	M	7 46 13	...	13	...	
	F	9 10 53	...	...	...	
,, 27th	P	2 48 53	5	...	9100	Great.
	S	2 59 17	8	...	...	
	L	3 19 5	16	...	...	
	M_1	3 27 5	...	63	...	
	M_2	3 30 35	...	119	...	
	F	6 10 5	...	...	...	
,, 28th	P	7 50 13	?	...	1050	Slight.
	S	7 52 1	3	...	...	
	L	7 52 43	5	...	...	
	F	?	...	...	...	
May 3rd	P	23 44 18	4	...	2700	Do.
	S	23 48 35	6	...	...	
	L	23 51 38	8	...	...	
,, 4th	F	0 4 36	...	...	...	
,, 8th	P	10 56 22	5	...	12300	Do.
	S	11 8 59	8	...	...	
	L	11 39 30	24	...	...	
	F	13 11 0	...	...	...	
,, 11th	P	19 21 43	5	...	6250	Do.
	S	19 29 31	7	...	...	
	L	19 41 31	10	...	...	
	F	20 35 41	...	...	...	
,, 12th	P	16 11 10	?	...	1100	Do.
	S	16 13 28	7	...	...	
	L	16 14 9	10	...	...	
	F	16 43 59	...	...	...	
,, 18th	P	10 27 11	3	...	750	Do.
	S	10 28 30	4	...	...	
	L	10 29 7	6	...	...	
	F	11 23 17	...	...	...	
,, 18th	P	18 21 25	6	...	7050	Do.
	S	18 30 0	8	...	...	
	L	18 43 40	17	...	...	
	F	20 7 40	...	...	...	
,, 24th	eP	3 17 38	2	...	500	Do.
	S	3 18 24	4	...	...	
	L	3 18 52	5	...	...	
	F	?	...	...	...	

TABLE D 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude ($\frac{\mu}{A_N}$)	Distance △ (Km.).	Remarks.
1933.		H. M. S.				
May, 26th	eP	14 26 39	2	...	400	Slight.
	S	14 27 15	3	...	...	
	L	14 27 45	5	...	...	
	F	?	...	...	...	
June 6th	eP	2 39 59	5	...	3350	Do.
	S	2 45 26	7	...	...	
	L	2 45 14	10	...	...	
	F	?	...	...	...	
,, 7th	eP	11 48 56	4	...	1100	Moderate
	S	11 50 52	6	...	...	
	L	11 51 46	10	...	...	
	F	?	...	...	...	
,, 7th	P	18 20 4	4	...	5400	Slight.
	S	18 27 12	7	...	...	
	L	18 36 40	10	...	...	
	F	19 25 10	...	...	...	
,, 13th	eP	20 49 29	4	...	4150	Do.
	eS	20 55 34	7	...	...	
	L	21 1 34	10	...	...	
	F	?	...	...	...	
,, 18th	P	21 47 24	5	...	5200	Moderate
	S	21 54 18	7	...	...	
	L	22 3 11	14	...	...	
	M	22 7 51	...	39	...	
	F	?	...	...	...	
,, 25th	P	5 54 9	3	...	3200	Slight.
	eS	5 59 9	?	...	...	
	L	6 2 53	5	...	...	
	F	?	...	...	...	
July 3rd	eP	15 11 30	2	...	1600	Do.
	S	15 14 11	4	...	...	
	L	15 15 42	8	...	...	
	F	?	...	...	...	
,, 7th	eP	7 41 39	3	...	1050	Do.
	S	7 43 35	5	...	...	
	L	7 44 23	8	...	...	
	F	?	...	...	...	
,, 8th	eP	8 42 38	3	...	900	Do.
	S	8 44 12	5	...	...	
	L	8 44 50	8	...	...	
	F	?	...	...	...	
1933.		H. M. S.				
July 9th	P	1 39 21	3	...	6400	Slight.
	S	1 47 11	5	...	...	
	eL	2 1 1	10	...	...	
	F	?	...	...	...	
,, 9th	P	12 41 12	4	...	6400	Moderate
	S	12 49 3	6	...	...	
	L	13 2 33	12	...	...	
	F	?	...	...	...	
,, 13th	P	23 11 8	2	...	300	Slight.
	S	23 11 43	3	...	...	
	L	23 11 56	5	...	...	
	F	23 34 26	...	...	...	
,, 19th	eP	20 50 55	?	...	1200	Do.
	S	20 52 55	5	...	...	
	L	20 53 55	8	...	...	
	F	?	...	...	...	
,, 21st	P	20 33 54	5	..	10250	Do.
	S	20 45 15	10	...	...	
	L	21 8 30	22	...	...	
	F	?	...	...	...	
,, 22nd	P	21 6 40	6	...	8800	Moderate
	S	21 16 39	8	...	...	
	L	21 35 48	15	...	...	
	M	21 44 28	...	21	...	
	F	23 35 39	...	...	...	
Aug. 4th	eP	17 38 27	2	...	1050	Slight.
	eS	17 40 18	3	...	...	
	eL	17 41 1	5	...	...	
	F	?	...	...	...	
,, 12th	P	7 41 41	4	...	800	Do.
	S	7 43 11	5	...	...	
	L	7 43 49	10	...	...	
	F	?	...	...	...	
,, 12th	P	17 5 46	4	...	1750	Do.
	S	17 8 49	5	...	...	
	L	17 10 23	8	...	...	
	F	?	...	...	...	
1933.		H. M. S.				
Aug. 13th	P	9 38 25	4	...	7150	Slight.
	S	9 46 55	6	...	...	
	L	10 0 55	15	...	...	
	F	11 3 55	...	...	...	
,, 14th	P	22 18 33	4	...	3350	Do.
	S	22 23 41	6	...	...	
	L	22 27 52	8	...	...	
	F	22 52 22	...	...	...	
,, 15th	eP	3 6 46	?	...	5440	Very slight.
	S	3 13 59	3	...	...	
	L	3 23 31	5	...	...	
	F	?	...	...	...	
,, 20th	eP	11 55 25	5	...	4300	Moderate
	S	12 1 28	7	...	...	
	L	12 7 25	15	...	...	
	M	12 10 55	...	11	...	
	F	13 14 25	...	...	...	
,, 28th	P	22 39 54	5	...	12500	Do.
	S	22 53 4	8	...	...	
	L	23 19 41	20	...	...	
	M	23 21 41	...	58	...	
	F	2 31 4	...	...	...	
,, 29th	P	15 13 12	4	...	6700	Slight.
	S	15 21 27	7	...	...	
	L	15 34 27	12	...	...	
	F	?	...	...	...	
Sep. 6th	eP	22 21 35	4	...	3050	Moderate
	S	22 25 48	6	...	...	
	L	22 31 08	9	...	...	
	F	?	...	...	...	
,, 9th	P	5 2 48	4	...	5600	Slight.
	S	5 9 52	5	...	...	
	L	5 19 12	7	...	...	
	F	?	...	...	...	
,, 9th	eP	21 32 23	?	...	2500	Do.
	S	21 36 3	5	...	...	
	eL	21 40 3	8	...	...	
	F	?	...	...	...	
,, 24th	P	15 32 8	4	...	8550	Do.
	S	15 41 42	5	...	...	
	L	16 1 45	8	...	...	
	F	16 50 45	...	...	...	
,, 25th	P	18 54 6	5	...	1900	Moderate
	S	18 57 4	6	...	...	
	L	18 59 7	10	...	...	
	M	19 1 17	...	33	...	
	F	21 2 32	...	...	...	

TABLE D 3—*concld.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude $\frac{(\mu)}{A_N}$	Distance (Km.)	Remarks.
1933.		H. M. S.				
Sept. 30th	P	14 30 2	3	...	6100	Slight.
	S	14 37 37	6	...	...	
	L	14 49 44	15	...	...	
	F	16 8 19	...	...	...	
Oct. 2nd	P	15 51 19	6	...	14900	Moderate
	S	16 5 11	8	...	...	
	eL	16 45 20	22	...	...	
	M	16 56 50	...	48	...	
	F	18 12 20	...	...	...	
,, 5th	P	13 36 42	4	...	3500	Do.
	S	13 42 2	5	...	...	
	L	13 46 37	10	...	...	
	M	?	...	...	...	
	F	15 4 57	...	...	...	
16th	P	4 40 22	5	...	2550	Slight
	S	4 44 36	7	...	...	
	L	4 47 2	10	...	...	
	F	?	...	...	...	
,, 22nd	P	14 12 13	4	...	2000	Do.
	S	14 15 37	5	...	...	
	L	14 17 30	8	...	...	
	F	14 46 37	...	...	...	
,, 23rd	P	12 45 19	4	...	1600	Do.
	S	12 48 1	5	...	...	
	L	12 49 32	7	...	...	
	F	?	...	...	...	
,, 24th	P	5 32 20	3	...	1900	Do.
	S	5 35 23	5	...	...	
	L	5 37 19	8	...	...	
	F	5 53 14	...	...	...	
,, 25th	P	23 47 51	5	...	7050	Do.
	S	23 56 15	8	...	...	
,, 26th	L	0 10 50	14	...	...	
	F	1 49 24	...	...	...	
,, 26th	P	7 1 16	2	...	1500	Do.
	S	7 3 59	5	...	...	
	L	7 5 13	8	...	...	
	F	?	...	...	...	
,, 26th	P	12 30 13	4	...	12150	Do.
	S	12 42 13	8	...	...	
	L	13 12 46	22	...	...	
	F	14 56 46	...	...	...	
,, 30th	P	11 37 14	?	...	900	Do.
	S	11 38 45	2	...	...	
	L	11 39 28	3	...	...	
	F	?	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude $\frac{(\mu)}{A_N}$	Distance (Km.)	Remarks.
1933.		H. M. S.				
Nov. 1st	eP	19 39 25	?	...	500	Slight
	S	19 40 18	3	...	...	
	L	19 40 43	5	...	...	
	F	19 47 25	...	...	...	
,, 2nd	P	12 39 30	4	...	8150	Do.
	S	12 49 6	5	...	...	
	L	13 6 29	10	...	...	
	F	14 8 4	...	...	...	
,, 5th	P	20 29 36	4	...	2200	Moderate
	S	20 33 18	6	...	...	
	L	20 35 19	10	...	...	
	M	20 39 9	...	52	...	
	F	21 32 36	...	...	...	
,, 7th	P	11 11 35	2	...	550	Do.
	S	11 12 33	5	...	...	
	L	11 12 56	8	...	...	
	F	12 17 35	...	...	...	
,, 8th	P	14 25 50	?	...	1450	Slight.
	S	14 28 21	4	...	...	
	L	14 29 33	7	...	...	
	F	14 50 53	...	...	...	
,, 19th	P	9 12 36	4	...	1550	Do.
	S	9 15 20	6	...	...	
	L	9 16 37	8	...	...	
	M	9 18 47	...	17	...	
	F	?	...	...	...	
,, 20th	P	23 32 57	4	...	9700	Great.
	S	23 43 17	7	...	...	
,, 21st	L	0 3 49	15	...	...	
	M_1	0 9 9	...	71	...	
	M_2	0 10 9	...	71	...	
	M_3	0 10 59	...	71	...	
	M_4	0 11 39	...	71	...	
	M_5	0 13 19	...	79	...	
	M_6	0 15 59	...	114	...	
	F	3 20 19	...	...	...	
,, 22nd	P	12 44 3	4	...	9100	Moderate
	S	12 54 20	6	...	...	
	L	13 14 31	15	...	...	
	M	13 19 51	...	25	...	
	F	16 20 1	...	...	...	
,, 24th	P	3 57 45	3	...	1050	Slight.
	S	3 59 33	5	...	...	
	L	4 0 27	10	...	...	
	F	4 19 57	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude $\frac{(\mu)}{A_N}$	Distance (Km.)	Remarks.
1933.		H. M. S.				
Dec. 2nd	P	2 20 21	3	...	2550	Slight.
	S	2 24 30	5	...	...	
	L	2 27 7	6	...	...	
	F	2 45 39	...	...	...	
,, 2nd	P	20 28 12	5	...	12150	Do.
	S	20 40 39	7	...	...	
	L	21 10 28	16	...	...	
	F	22 59 48	...	...	...	
,, 4th	P	14 41 36	2	...	1700	Do.
	S	14 43 27	3	...	...	
	L	14 44 24	5	...	...	
	F	15 22 14	...	...	...	
,, 4th	P	19 42 24	5	...	4000	Do.
	S	19 48 14	6	...	...	
	L	19 54.10	9	...	...	
	F	20 55 20	...	...	...	
,, 9th	P	7 57 10	4	...	2400	Do.
	S	8 1 6	5	...	...	
	L	8 3 26	7	...	...	
	F	?	...	...	...	
,, 12th	P	14 28 51	5	...	6250	Do.
	S	14 31 50	7	...	...	
	L	14 42 50	10	...	...	
	F	15 53 50	...	...	...	
,, 14th	P	12 41 34	4	...	500	Moderate
	S	12 42 16	6	...	...	
	L	12 42 58	10	...	...	
	M	12 43 52	...	33	...	
	F	13 10 2	...	...	...	
,, 14th	eP	18 59 20	5	...	3500	Slight.
	S	19 4 50	7	...	...	
	L	19 8 50	10	...	...	
	M	19 11 1	...	19	...	
	F	?	...	...	...	
,, 24th	P	11 3 36	5	...	3700	Do.
	eS	11 9 6	6	...	...	
	L	11 14 3	8	...	...	
	F	12 28 18	...	...	...	
,, 26th	eP	10 20 13	3	...	1600	Do.
	S	10 23 3	5	...	...	
	L	10 24 11	10	...	...	
	F	10 44 11	...	...	...	

S. N. SEN,

Meteorologist,

Calcutta.

STATION—CALCUTTA (ALIPORE).

φ=22° 32′ ; λ=88° 20′ ; h=6 metres above M. S. L. ; *Sub-soil*—Alluvial.

Apparatus—Omori Ewing Seismograph (A_N A_E components).

TABLE D 4.

	Vm	To	ε	$\frac{r}{To^2}$
. . . . .	32	28 secs.		
. . . . .	30	28 secs.		

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Amplitude (μ) A N	Amplitude (μ) A E	Distance (Km.). Δ	Remarks.
1933.		H. M. S.					(A) N
Mar. 6th	P	13 5 43	2	...	...	480	Moderate
	S	13 6 30	4	...	...	...	
	L	13 6 52	5	...	...	...	
	M	13 7 8	...	655	...	...	
	F	14 4 38	...	...	...	...	
	P	13 5 45	2	...	...	...	(A) E
	S	13 6 31	4	...	...	...	
	L	13 6 53	6	...	...	...	
	M	13 7 11	...	...	448	...	
	F	14 3 39	...	...	...	...	
							(A) N
May 16th	P	1 16 33	4	...	...	2,150	Moderate
	S	1 20 1	7	...	...	...	
	L	1 22 25	16	...	...	...	
	M	1 26 39	...	379	...	...	
	F	2 11 15	...	...	...	...	
							(A) E
,, 16th	P	1 16 35	5	...	...	1,900	Moderate
	S	1 20 3	7	...	...	...	
	L	1 22 25	16	...	...	...	
	M	1 26 49	...	...	241	...	
	F	2 10 55	...	...	...	...	

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Amplitude (μ) A N	Amplitude (μ) A E	Distance (Km.). Δ	Remarks.
1933.		H. M. S.					(A) N
June 24th	P	22 0 33	6	...	...	8,900	Very great.
	S	22 6 3	15	...	...	...	
	L	22 10 46	28	...	...	...	
	M	22 14 16	...	3069	...	...	
	F	?	...	...	...	...	(A) E instrument stopped.
							(A) N
Aug. 11th	P	8 53 51	4	...	...	1,450	Great.
	S	8 56 45	6	...	...	...	
	L	8 57 50	8	...	...	...	
	M	8 59 32	...	483	...	...	
	F	9 56 49	...	...	...	...	
	P	8 54 25	4	...	...	...	(A) E
	S	8 56 49	6	...	...	...	
	L	8 27 49	8	...	...	...	
	M	8 59 33	...	...	948	...	
	F	9 56 49	...	...	...	...	
							(A) N
,, 25th	P	7 54 54	5	...	...	1,900	Very great.
	S	7 58 9	10	...	...	...	
	L	7 59 39	24	...	...	...	
	M	?	...	...	...	...	
	F	?	...	...	...	...	

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Amplitude (μ) A N	Amplitude (μ) A E	Distance (Km.). Δ	Remarks.
1933.		H. M. S.					(A) E
Aug. 25th	P	7 54 55	5	...	...	1,900	Very great.
	S	7 58 9	12	...	...	...	
	L	7 59 41	24	...	...	...	
	M	?	...	...	...	...	
	F	?	...	...	...	...	
							(A) N
Nov. 28th	P	11 15 7	5	...	...	2,950	Moderate
	S	11 19 42	7	...	...	...	
	L	11 24 14	12	...	...	...	
	M_1	11 25 30	...	259	...	...	
	M_2	11 27 12	...	259	...	...	
	F	12 26 55	...	...	...	...	
							(A) E
	P	11 15 16	5	...	...	...	
	S	11 19 54	7	...	...	...	
	L	11 24 23	12	...	...	...	
	M	11 27 31	...	...	138	...	
	F	12 26 59	...	...	...	...	

S. N. SEN,
Meteorologist,
Calcutta.

STATION—KODAIKANAL.

φ=10° 13′ 50″ ; λ=77° 28′ 00″; h=2343m. ; *Sub-soil*—Rock.

Apparatus.—Milne Shaw Seismograph (E-W).

TABLE D 5.

				Steady Mass (Kg).			T	Vm	ε	S* (mm)	Paper speed mm/min.	Up				
A																
E	. . . . .			0·45			11·5	250	20:1	44 (appr.)	S	E				
Date.	Phase.	Time. G. M. T.	Period (Sec.)	AMPLITUDE (MM) A_E	Distance (Km.) △	REMARKS.	Date.	Phase.	Time G. M. T.	Period (Sec.)	AMPLITUDE (MM.). A_E	Distance (Km). △	REMARKS.	Date.	Phase.	Time. G. M. T.	Period (Sec.)	AMPLITUDE (MM.). A_E	Distance (Km). △	REMARKS.
1933.		H.-M. S.					1933.		H. M. S.					1933.		H. M. S.				
Jan. 1st	..	...	...	5·00	1000	No time marks.	Jan. 27th —28th	P	23 02 15	...	...	..	Very feeble shock.	Mar. 11th	iP	19 42 09	...	...	3980	
								F	00 23 00	...	...	..			S	19 53 15	...	...	...	
„ 7th	P	4 17 22	...	...	2800										L	...	...	...	...	
	S	4 26 08	..	...	..		„ 28th	P	3 13 41	...	...	..	Very feeble shock.		M	...	...	...	...	
	L	4 44 11	...	...	..			F	3 18 00	...	...	..			F	20 47 00	...	...	...	Feeble shock.
	M	4 53 06(1)	...	1·50	..															
		4 55 54(2)	...	...	..		Feb. 13th	P	2 56 26	...	...	1366		„ 12th	P	...	...	...	...	
	F	?	..	...	...	No record at time of F.		S	3 01 43	...	...	..			S	...	...	...	...	
								L	3 04 02	...	...	..			L	...	...	...	...	
„ 9th	P	2 07 15	..	...	680			M	3 13 34	...	1·75	..			M	...	...	...	...	
	S	2 10 13	...	...	..			F	3 47 60	...	...	..			F	...	...	...	...	Tremors No time marks.
	L	2 11 00	..	...	..		„ 18th	P	4 30 00	...	...	..								
	M	2 11 41	...	16·25	..	Lines over-lapping		F	5 00 00	...	...	..	Feeble shock.	„ 17th	iP	16 07 24	...	...	3260	
	F	?	...	...	..										S	16 17 08	...	...	...	
„ 11th	P	18 13 51	..	...	680		„ 21st	P	19 03 22	...	...	1210			L	16 31 15	...	...	...	
	S	18 16 49	...	...	..			S	19 13 13	...	...	..			M	16 46 13	...	0·75	...	
	L	18 22 03	..	...	..			L	19 17 45	...	...	..			F	17 32 00	...	...	...	
	M	18 23 22	...	1·50	..			M	...	...	...	..								
	F	19 20 00	..	...	..			F	19 39 00	...	...	..	Feeble shock.	„ 17th	iP	19 41 11	...	...	2235	
															iS	19 48 34	...	...	...	
„ 17th	P	16 14 15	...	...	..		„ 22nd	P	18 03 37	...	...	1335			L	19 53 00	...	...	...	
	F	16 14 32	...	...	..	Tremors.		S	18 08 45	...	...	..			M	20 04 56	...	2·0	...	
								L	18 12 08	...	...	..			F	21 03 00	...	...	...	
„ 17th	P	18 56 22	...	...	1800			M	18 15 04	...	0·75	..								
	S	19 02 45	...	...	..			F	18 33 00	...	...	..		„ 18th	P	3 17 15	...	...	...	
	L	19 06 09	...	...	..										F	4 41 00	...	...	...	Tremors.
	M	19 12 19	...	1·00	..		„ 23rd	iP	3 28 58	...	...	5155								
	F	20 17 00	...	...	..			S	8 45 23	...	...	..		„ 31st	P	22 15 00	...	...	...	
								L	9 11 52	...	...	..			F	22 33 00	...	...	...	Tremors.
„ 17th	P	22 20 38	...	...	..			M	9 27 33	...	1·75	..								
	F	22 52 00	...	...	..	Very feeble shock.		F	10 39 00	...	...	..		April 9th	P	2 57 11	...	...	...	
															S	3 06 04	...	...	...	
„ 20th	P	12 19 15	...	...	870		Mar. 2nd	iP	17 41 45	...	...	2857			L	3 22 27	...	...	...	
	S	12 22 51	...	...	..			iS	17 50 36	...	...	..			M	...	...	...	...	
	L	12 25 00	...	...	..			L	?	...	...	..			F	4 18 00	...	...	...	
	M	...	...	...	..			M	18 13 38	...	98·0	..							...	Feeble shock.
	F	12 41 00	...	...	..	Feeble shock.		F	22 39 00	...	...	..		„ 9th	P	5 12 15	...	...		
															F	5 39 00	...	...	...	
21st	P	...	...	...	..		„ 3rd	P	2 27 24	...	...	..							...	Tremors.
	S	...	...	...	..			F	2 52 00	...	...	..	Tremors.	„ 10th	P	11 09 19	...	...		
	L	...	...	..	..										F	11 48 00	...	...	...	
	M	...	...	30·00	..														...	
	F	...	...	...	..		„ 11th	P	14 33 09	...	...	3012								Very feeble shock.
						Lines over-lapping and times not possible to measure		S	14 42 21	...	...	..		„ 16th	P	06 19 09	...	...		
								L	15 04 08	...	..	..			F	6 42 00	...	...	...	
								M	...	...	...	..							...	Do.
								F	15 47 00	...	..	..	Feeble shock.	„ 16th	P	7 00 09	...	...	...	
															F	7 28 00	...	...	...	Tremors.

*S.-Tilt sensitivity, *i.e.*, the trace amplitude in mm. per second of arc tilt.

TABLE D 5—*contd.*

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Amplitude (mm.). $\frac{A}{E}$	Distance (Km.). △	Remarks.
1933.		H. M. S.				
April 16th	iP	19 27 00	...	...	2700	
	iS	19 35 30	...	...	..	
	L	...	...	...	..	
	M	...	...	...	...	
	F	20 30 00	...	...	...	Feeble shock.
„ 23rd	iP	6 06 45	...	...	2235	
	iS	6 14 11	...	...	...	
	L	6 23 56	...	...	..	
	M	6 34 04	...	0·75	...	
	F	7 08 00	...	...	...	
„ 23rd	P	7 24 22	...	...	2800	
	S	7 33 06	...	...	..	
	L	7 54 15	...	...	...	
	M	...	...	...	...	
	F	8 29 00	...	...	..	Feeble shock.
„ 27th	P	2 49 45	...	...	3730	
	S	3 00 25	...	...	...	
	L	3 21 11	...	...	...	
	M	3 30 08	...	5·5	...	
	F	5 12 00	...	...	...	
May 8th	P	10 54 11	...	...	...	
	S	...	...	...	..	
	L	11 48 22	...	...	...	
	M	...	...	...	...	
	F	12 51 00	...	...	..	Feeble shock.
„ 11th	iP	19 19 30	...	...	2360	
	S	19 27 13	...	...	...	
	C	19 42 30	...	...	...	
	M	...	...	...	...	
	F	20 10 00	...	...	...	Feeble shock.
„ 16th	iP	1 17 57	...	...	885	
	iS	1 21 40	...	...	...	
	L	1 23 29	...	...	...	
	M	1 28 13	...	6·5	...	
	F	3 13 00	...	...	...	
„ 17th	P	8 49 45	...	...	...	
	F	8 52 00	...	...	...	Tremors.
„ 18th	P	10 28 32	...	...	714	
	S	10 31 35	...	...	...	
	L	10 33 36	...	...	..	
	M	10 35 37	...	1·5	...	
	F	10 46 00	...	...	..	
„ 19th	P	18 18 06	..	...	2765	
	S	18 21 45	...	...	...	
	L	18 44 11	...	...	..	
	M	18 49 28	...	0·75	...	
	F	19 48 00	...	...	...	

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Amplitude (mm.). $\frac{A}{E}$	Distance (Km.). △	Remarks.
1933.		H. M. S.				
May 20th	P	5 48 00	...	...	...	
	F	6 04 00	...	...	...	Tremors.
„ 26th	P	15 12 38	...	...	...	
	F	15 17 00	...	...	...	Tremors.
June 2nd	P	8 09 28	...	...	...	
	F	8 25 00	...	...	...	Tremors.
„ 6th	iP	2 36 17	...	...	370	
	iS	2 37 55	...	...	...	
	L	2 48 55	...	...	...	
	M	...	...	...	...	
	F	3 23 00	...	...	...	Feeble shock
„ 7th	iP	11 51 55	...	...	1120	
	iS	11 56 35	...	...	...	
	L	12 00 00	...	...	...	
	M	...	...	...	...	
	F	12 47 00	...	...	...	*Slight* shock.
„ 13th	P	23 11 50	...	...	...	
	F	23 32 00	...	...	...	Tremors.
„ 18th	P	21 48 35	...	...	2730	
	S	21 56 41	...	...	...	
	L	22 06 00	...	...	...	
	M	22 18 31	...	1·75	...	
	F	23 31 00	...	...	...	
„ 19th	P	0 11 00±	...	...	...	
	F	0 19 00	...	...	...	Tremors.
„ 19th	P	13 04 45	...	...	...	
	F	13 09 00	...	...	...	Tremors.
„ 24-25	iP	22 01 05	...	...	1300	
	iS	22 06 09	...	...	...	
	L	22 09 40	...	...	...	
	M	22 12 25	...	113·0	...	
	F	1 12 00	...	...	...	
„ 25th	P	5 58 10	...	...	...	
	F	6 14 00	...	...	...	Tremors.
July 9th	Lines overlapping			...	...	Feeble shock.
„ 9th	P	12 41 56	...	...	3000	
	S	12 51 00	...	...	...	
	L	13 11 10	...	...	...	
	M	13 20 27	...	0·8	...	
	F	13 56 00	...	...	...	
„ 21st	No time marks—beginning 20 h. 30 m.				about	Feeble shock.

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Amplitude (mm.). $\frac{A}{E}$	Distance (Km.). △	Remarks.
1933.		H. M. S.				
„ 22nd	P	21 19 20	...	...	2050	
	S	21 26 15	...	...	...	
	L	21 42 40	...	...	...	
	M	21 54 59	...	1·5	...	
	F	23 16 00	...	...	...	
„ 24th	No time marks—beginning 20 hours.				about	Feeble shock.
Aug. 11th	iP	8 59 30	...	...	1100	
	iS	9 03 59	...	...	...	
	L	9 09 11	...	...	...	
	M	...	...	...	...	
	F	9 52 00	...	...	...	Feeble shock.
„ 13th	iP	9 36 42	...	...	2100	
	S	9 43 45	...	...	...	
	L	9 48 03	...	...	...	
	M	...	...	...	...	
	F	10 29 00	...	...	...	Feeble shock.
„ 20th	P	11 53 36	...	...	2000	
	S	12 00 25	...	...	...	
	L	12 08 22	...	...	...	
	M	...	...	...	...	
	F	12 56 00	...	...	...	Feeble shock.
„ 25th	iP	18 57 00	...	...	1420	
	iS	19 02 23	...	...	...	
	L	19 07 18	...	...	...	
	M	19 14 17	...	37·0	...	
	F	21 07 00	...	...	...	
„ 28th	P	22 34 14	...	...	...	
	S	...	...	...	...	
	L	...	...	...	...	
	M	...	...	...	...	
	F	...	...	...	...	
„ 28-29	P	22 37 44	...	...	3300	Overlapping.
	S	22 47 30	...	...	...	
	L	23 08 26	...	...	...	
	M	23 18 27	...	4·25	...	Overlapping.
	F	1 47 00	...	...	...	
Sept. 2nd	iP	16 55 45	...	...	...	
	F	17 49 00	...	...	...	Feeble shock.
„ 6th	P	17 42 41	...	...	...	
	F	18 30 00	...	...	...	Tremors.
„ 6th	iP	22 21 46	...	...	1000	
	S	22 25 55	...	...	...	
	L	?	...	..	...	
	M	?	...	1·5	...	Times uncertain for L and M.
	E	23 36 00	...	...	...	

TABLE D 5—*concld.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (MM.). A_E	Distance (Km.) Δ	Remarks.
1933.		H. M. S.				
Sept. 7th	P	18 02 13	...	...	2090	
	S	18 08 54	...	...	...	
	L	...	...	...	...	
	M	...	...	...	...	
	F	18 35 00	...	...	...	Feeble shock.
,, 7th	P	23 18 10	...	...	...	
	F	23 41 00	...	...	...	Tremors.
,, 9th	P	21 43 24	...	...	...	
	F	22 36 00	...	...	...	Feeble shock.
,, 21st	P	10 28 12	...	...	...	
	F	10 47 00	...	...	...	Tremors.
,, 24th	P	15 35 36	...	...	2470	
	S	15 43 32	...	...	...	
	L	16 07 20	...	...	...	
	M	...	...	...	...	
	F	16 56 00	...	...	...	Feeble shock.
,, 25th	P	13 54 31	...	...	2100	
	S	14 01 33	...	...	...	
	L	14 09 49	...	...	...	
	M	...	...	...	...	
	F	14 31 00	...	...	...	Feeble shock.
,, 25th	P	19 02 13	...	...	1220	
	iS	19 07 04	...	...	...	
	L	19 10 04	...	...	...	
	M	19 18 35	...	2·0	...	
	F	20 35 00	...	...	...	
,, 30th	P	14 31 33	...	...	2600	
	S	14 39 48	...	...	...	
	L	14 50 48	...	...	...	
	M	...	...	...	...	
	F	15 53 00	...	...	...	Feeble shock
Oct. 2nd	iP	15 49 28	...	...	453	
	S	16 03 55	...	...	...	
	L	16 41 28	...	...	...	
	M	17 03 51	...	1·6	...	
	F	18 04 00	...	...	...	
1933.		H. M. S.				
Oct. 5th	P	13 36 03	...	...	1260	
	iS	13 41 00	...	...	...	
	iL	13 16 25	...	...	...	
	M	13 49 19	...	2·5	...	
	F	14 26 00	...	...	...	
,, 16th	P	4 44 35	...	...	310	
	S	4 45 55	...	...	...	
	L	4 47 47	...	...	...	
	M	4 49 14	...	1·6	...	
	F	5 04 00	...	...	...	
,, 22nd	P	14 14 16	...	...	...	
	F	14 29 00	...	...	...	Tremors.
,, 23rd	P	11 45 44	...	...	1366	
	iS	11 51 00	...	...	...	
	iL	11 55 00	...	...	...	
	M	11 58 06	...	0·9	...	Lines overlapping.
	F	12 25 00	...	...	...	Times uncertain.
,, 26th	P	12 27 22	...	...	...	
	F	13 50 00	...	...	...	Tremors.
,, 30th	P	11 44 35	...	...	...	
	F	11 51 00	...	...	...	Tremors.
Nov. 2nd	P	12 40 11	...	...	...	
	F	13 46 00	...	...	...	Tremors.
,, 5th	iP	20 32 42	...	...	485	
	S	20 34 35	...	...	...	
	iL	20 37 14	...	...	...	
	M	20 37 32	...	0·5	...	
	F	21 5 00	...	...	...	
,, 20th	iP	23 34 54	...	...	4040	
	iS	23 46 03	...	...	...	
	iL	0 13 22	...	...	...	
	M	0 22 40	...	5·0	...	
	F	2 13 00	...	...	...	
1933.		H. M. S.				
Nov. 22nd	iP	12 53 06	...	...	3230	
	iS	13 02 45	...	...	...	
	L	13 19 00	...	...	...	
	M	13 24 30	...	0·4	...	
	F	14 19 00	...	...	...	
,, 23rd	P	16 55 40	...	...	...	
	F	17 06 00	...	...	...	Tremors. Lines overlapping.
,, 28th	P	11 15 30	...	...	1550	
	iS	11 21 10	...	...	...	
	iL	11 29 25	...	...	...	
	M	11 30 34	...	2·0	...	
	F	12 24 00	...	...	...	
Dec. 2nd	P	2 25 50	...	...	534	
	S	2 28 08	...	...	...	
	iL	2 29 00	...	...	...	
	M	2 29 32	...	1·0	...	
		2 38 00	...	...	...	
,, 4th	P	14 46 00	...	...	...	
	F	14 59 00	...	...	...	Tremors. Lines overlapping.
,, 4th	P	22 50 15	...	...	260	
	S	22 51 23	...	...	...	
	L	22 52 43	...	...	...	
	M	22 52 49	...	0·6	...	
	F	23 22 00	...	...	...	
,, 9th	P	8 02 32	...	...	500	
	S	8 04 42	...	...	...	
	L	8 05 51	...	...	...	
	M	8 06 30	...	0·9	...	
	F	8 34 00	...	...	...	
,, 12th	P	14 23 05	...	...	1000	
	S	14 27 10	...	...	...	
	L	14 32 48	...	...	...	
	M	14 33 35	...	0·5	...	
	F	15 13 00	...	...	...	

T. ROYDS,

Director, Madras and Kodaikanal Observatories.

The following table contains a list of earthquakes that were reported by voluntary observers from various stations:—

TABLE D-6.

Station.	Date.	G.M.T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.	REMARKS.
	1933.	H. M.	Sec.			
Gauhati	Jan. 1	19 50	about 90	6	2	
Salonah	,, 1	20 15	4·5	4	1	
Drosh.	,, 5	19 55	20	6	1	
		23 00	15		3	
Lahore	,, 9	2 07	3	5	1	
R. A. F. Peshawar	,, 9	2 07	90	7	3	
Cherat	,, 9	2 04	40	7	2	
Drosh	,, 9	2 10	80	7	1	
Rawalpindi.	,, 9	2 01	120	8	2	
Gurez	,, 9	2 10	15	5	3	
Skardu	,, 9	2 05	10	6	3	
Gilgit	,, 9	2 03	Nearly 10 & 12	5	2	
Dras	,, 9	2 12	30	8	3	
Gauhati	,, 10	24 00	10	6	1	
Drosh	,, 11	15 55	40	6	1	
Drosh	,, 20	0 15	16	6	1	
Gauhati	Feb. 6	12 46	20	6	1	
Gauhati	,, 8	1 15	30	5	3	
Drosh.	,, 17	12 11	about 90	6	2	
Dhubri	Mar. 9	16 38	12	7	3	
Cherrapunji	,, 6	13 6	10	3	1	
Dhubri	,, 6	13 7	5	7	2	
Dhubri	,, 6	13 44	22	7	3	
Dhubri	,, 6	17 54	7	7	3	
Salonah	,, 6	13 8	about 10 to 12	5		
Rangpur	,, 6	13 6	32	5	40	
Gauhati	,, 6	13 13	about 20	6	3	
		18 00	10		1	
Dhubri	,, 7	10 21	4	7	2	
Dhubri	,, 7	3 3	3	6	1	
Mymensingh	,, 7	00 12	2	6	1	
Chaman	,, 11	10 25	2	5	...	
Dras.	,, 13	15 10	40	8	2	
Dhubri	,, 14	2 6	4	6	2	
R. A. F. Quetta	,, 30	8 41	15	5	1	
Akyab	,, 31	8 10	2	3	2	
Skardu	Apl. 1	16 16	5	3	5	

Station.	Date.	G.M.T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.	REMARKS.
	1933.	H. M.	Sec.			
Dhubri	Apl. 5	17 42	4	7	2	
Dhubri	,, 6	3 16	6	7	4	
Dhubri	,, 17	4 23	48	7	5	
Dhubri	,, 20	10 27	14	7	3	
Drosh.	,, 25	15 30	0 5	3	2	
Dhubri	,, 28	7 54	26	7	3	
Dhubri	May 17	12 16	6	7	3	
Lahore	,, 17	9 44	30	68	1	
Sialkot	,, 17	9 44	2	3	1	
Dhubri	,, 19	1 50	6	7	3	
Drosh	,, 24	8 35	30	4	1	
Gauhati	,, 26	14 18	12	7	1	
Dhubri	,, 26	14 33	20	6	1	
Drosh	,, 27	22 45	90	6	1	
Drosh.	June 3	18 01	90	6	3	
Gauhati	July 13	23 21	about 15	6	1	
Salonah	,, 13	23 03	about 10	6	..	
Poona	,, 16	23 50	about 5	5	1	
Salonah	,, 18	13 07	about 2 or 3	3	1	
Salonah	,, 27	3 36	5-7	3	1	
Dras.	,, 29	4 11	24	8	3	
Skardu	Aug. 3	9 00	10	6	1	
Yatung (Tibet)	,, 30	13 13	30	4	Several tremors.	
Shillong	Sep. 2	10 49	2	5	1	
Cooch Behar	,, 24	15 41	about 5	6	1	
Akyab	Nov. 7	2 19	2	3	2	
Chaman	,, 12	2 15	1	3	1	
Salonah	,, 29	5 56	about 5	4	Small vibrations.	
Salonah	Dec. 4	14 40	10-12	4	1	
Cherrapunji	,, 4	14 40	10	3	2	
Gauhati	,, 4	14 41	5-7	5	1	
Sibsagar	,, 4	14 40	about 70	6	1	
Shillong	,, 4	14 40	about 20	4	2	
Salonah	,, 5	13 38	about 5	4	1	
Srinagar	,, 21	8 33	2	6	2	

J. M. SIL,
Meteorologist,
Poona.

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Burma Book Club, Ltd., Rangoon.
Butterworth & Co. (India), Ltd., Calcutta.
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Chatterjee & Co., 3, Bacharam Chatterjee Lane, Calcutta.
Chukerverty, Chatterjee & Co., Ltd., 13, College Square, Calcutta.
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City Book House, Meston Road, Cawnpore.
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English Book Depot, Taj Road, Agra, and Saddar Bazar, Jhansi.
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Fakir Chand Marwah, Peshawar Cantonment.
Fono Book Agency, Simla.
Gaya Prasad & Sons, Agra.
Grantha Mandir, Cuttack.
Higginbothams, Madras.
Hindu Library, 137-F, Balaram De Street, Calcutta.
Hyderabad Book Depot, Chaderghat, Hyderabad (Deccan).
Imperial Book Depot and Press, near Jama Masjid, (Machhliwalan), Delhi.
Indian Army Book Depot, Dayalbagh, Agra.
Indian Army Book Depot, Jullundur City and Daryaganj, Delhi.
Indian Book Shop, Benares City.
Indian School Supply Depot, Central Avenue, South, P. O. Dharamtala, Calcutta.
Insurance Publicity Co., Ltd., Lahore.
International Book Service, Poona 4.
Jaina & Bros., Mori Gate, Delhi, and Connaught Place, New Delhi, Messrs. J. M.
James Murray & Co., 12, Govt. Place, Calcutta (for Meteorological publications only).
Kali Charan & Co., Municipal Market, Calcutta.
Kamala Book Depot, 15, College Square, Calcutta.
Kamala Book Stores, Bankipore, Patna.
Karnataka Publishing House, Bangalore City.
Keale & Co., Karachi.
Krishnaswami & Co., Teppakulam P. O., Trichinopoly Fort, Messrs. S.
Lahiri & Co., Calcutta, Messrs. S. K.
Law Printing House, 11, Mount Road, Madras.
Law Publishing Co., Mylapore, Madras.
Lawrence and Mayo, Ltd., Bombay (for Meteorological publications only).
Local Self-Govt. Institute, Bombay.
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London Book Depot, B. I. Bazar, Bareilly, U. P.
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Mohanlal Dossabhai Shah, Rajkot.
Motilal Banarsi Das, Oriental Book Depot, Saidmitha Street, Lahore.
Nandkishore & Bros., Chowk, Benares City.
Nateson & Co., Publishers, George Town, Madras, Messrs. G. A.
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North India Christian Tract and Book Society, Clive Road, Allahabad.
Oriental Book Supplying Agency, 15, Shukrawar, Poona City.
Oxford Book and Stationery Company, Delhi, Lahore, Simla, Meerut and Calcutta.
Parikh & Co., Baroda, Messrs. B.
Pioneer Book Supply Co., 20, Shib Narayan Das Lane, Calcutta, and 219, Cloth Market, Delhi.
Popular Book Depot, Grant Road, Bombay.
Punjab Religious Book Society, Lahore.
Raghunath Prasad & Sons, Patna City.
Ram Krishna Bros., Opposite Bishrambag, Poona City.
Ram Narain Lal, Katra, Allahabad.
Rama Krishna & Sons, Book-sellers, Anarkali, Lahore.
Ramesh Book Depot, Stationery Mart, Kashmere Gate, Delhi.
Ray & Sons, 43, K. & L. Edwardes Road, Rawalpindi, Murree and Peshawar, Messrs. J.
Ray Chowdhury & Co., 119, Ashutosh Mukherjee Road, Bhowanipur, Calcutta.
Rochouse & Sons, Madras.
Roy Chowdhury & Co., 11, College Square, Calcutta, Messrs. N. M.
Sampson William & Co., 127-B, The Mall, Cawnpore.
Sarcar & Sons, 15, College Square, Calcutta, Messrs. M. C.
Sarkar & Co., Ltd., 18, Shama Charan Dey Street and 8/2, Hastings Street, Calcutta, Messrs. P. C.
Scientific Publishing Co., 9, Taltola Lane, Calcutta.
Seshachalam & Co., Masulipatam, Messrs. M.
Shivji & Co., P. O. Chauliaganj, Cuttack.
Shri Shankar Karnataka Pustaka Bhandara, Malamuddi, Dharwar.
S. P. Bookstall, 21, Budhwar, Poona.
Standard Book Depot, Lahore, Dalhousie and Delhi.
Standard Bookstall, Karachi.
Standard Bookstall, Quetta.
Standard Law Book Society, 5, Hastings Street Calcutta.
Standard Literature Company, Ltd., Calcutta.
Students' Popular Depot, Kachari Road, Lahore.
Surat and District Trading Society, Surat.
Taraporevala Sons & Co., Bombay, Messrs. D. B.
Thacker & Co., Ltd., Bombay.
Thacker, Spink & Co., Ltd., Calcutta and Simla.
Tripathi & Co., Book-sellers, Princess Street, Kalbadevi Road, Bombay, Messrs. N. M.
Union Stores, Indore City.
University Book Agency, Kachari Road, Lahore.
Upper India Publishing House, Ltd. Literature Palace, Ammuddaula Park, Lucknow.
Varadachary & Co., Madras, Messrs. P.
Venkatasubban, A., Law Book-seller, Vellore.
Wheeler & Co., Allahabad, Calcutta and Bombay, Messrs. A. H.
Young Man & Co., Ajmer, and Egerton Road, Delhi.

* Agents for publications on Aviation only.

INDIA WEATHER REVIEW, 1934

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Note.—All parts, together with the twelve Monthly Weather Reports, may be bound in the manner indicated above.

INDIA WEATHER REVIEW, 1934

INTRODUCTION.

THE India Weather Review for this year is composed of the twelve Monthly Weather Reports and the Annual Summary.

Up to 1932 the monthly means published in the Monthly Weather Reports were only for 8 hrs. L. M. T. and were based upon the telegraphed figures, the Monthly Weather Report being published promptly at the end of each month. The necessity of an afternoon weather chart for the preparation of forecasts for aviators led to most of the observatories in Persia, northern and central India, and Burma being raised by the end of 1930 to class II, recording observations both in the morning and afternoon. Arrangements for the tabulation and scrutiny of the afternoon observations were completed in 1932. From the issue for January 1933 further changes were therefore made in the Monthly Weather Report; it was expanded to contain averages of the afternoon observations also; the monthly means were based upon the scrutinised data contained in the Monthly Meteorological Registers received by post and the publication of the Monthly Weather Report was consequently delayed; data from most of the non-telegraphic observatories were also included in the Monthly Weather Report.

From 1933 each Monthly Weather Report gives a short account of the weather of the month and has the following five tables:—Table I containing the divisional and subdivisional means, Table II the monthly means of observations at 8 hrs. local time and 17 hrs. I. S. T. at Indian stations, Table III observations recorded at stations west of the Indus at 4 and 14 hrs. G. M. T. up to the 30th June 1934 and at 4 and 12 hrs. G. M. T. afterwards, Table IV the data of fourth class stations and Table V the rainfall data of fifth class stations.

Beginning with the issue for 1933, the Annual Summary is published in five parts, instead of seven, as detailed below—

I. Introduction.—Title page; table of contents; introduction; sheets of errata to Monthly Weather Reports and Annual Summary.

II. Part A.—Summary of weather and rainfall and tables of meteorological data. This gives a general description of the weather of the year, and contains annual tables corresponding to the monthly tables in the Monthly Weather Reports, monthly and annual tables for a few stations, tables of observations at 10 hrs. L. M. T. and special tables of rainfall, nocturnal radiation temperature, sunshine data, and hourly wind data.

Three plates showing the monthly and seasonal distribution of rainfall and monthly departures of pressure are given at the end.

III. Part B.—Snowfall. This gives a summary of the snowfall reports received from the mountain regions in the north of India.

IV. Part C.—Storms and depressions. This describes all storms and depressions and contains articles on western disturbances and local storms, and storm track charts.

V. Part D.—Seismic Records. This contains the records obtained with seismographs maintained by the department at Agra, Bombay, Calcutta and Kodaikanal. The list of publications of the India Meteorological Department will be found at the end of this part.

Notes on conditions of exposure of instruments, on methods of reduction and on form of presentation of data.

The following notes concerning the methods of observation in India and of reduction and grouping of results will probably be of some help to users of this volume.

Territorial divisions.

The system of territorial divisions, which has remained unchanged since 1st April 1912, is as follows:—

Chief political divisions.	Sub-divisions.
	Bay Islands.
Burma	Lower Burma.
	Upper Burma.
Assam	Assam.
Bengal	Bengal.
Bihar and Orissa	Orissa.
	Chota-Nagpur.
	Bihar.
United Provinces	United Provinces, East.
	United Provinces, West.
Punjab	Punjab, East and North.
	Punjab, Southwest.
	Kashmir.
North-West Frontier Province	North-West Frontier Province.
	Baluchistan.
Sind	Sind.
Rajputana	Rajputana, West.
	Rajputana, East.
Bombay	Gujarat.
	Konkan.
	Bombay Deccan.
Central India	Central India, West.
	Central India, East.
Central Provinces	Berar.
	Central Provinces, West.
	Central Provinces, East.
Hyderabad	Hyderabad, North.
	Hyderabad, South.
Mysore	Mysore.
Madras	Malabar.
	Madras, Southeast.
	Madras, Deccan.
	Madras Coast, North.

Barometric pressure.

Mercurial barometers on Fortin's principle with tubes of 0·4″ bore throughout have always been in use at most of the observing stations in India; but of late years the department has introduced an increasing number of Kew pattern barometers, made according to specifications issued by the Department.

Aneroid barometers were in use at Ispahan, Tehran, Kashgar and Srinagar.

At Calcutta and Bombay the standards are Newman instruments, with adjustable scales; at Poona, the standard is an instrument on Fortin's principle. All these standards have tubes of large bore.

All instruments issued up to 1931 were compared at Calcutta before issue and their corrections determined to the Calcutta standard, which was, until 1910, about ·011″ higher than the Kew standard. The present difference is probably less than this, but the determination of the exact amount is a matter of difficulty (*see* the Departmental Memoirs, Vol. XXI, pp. 127-8, 1916).

Instruments issued since the year 1932 have been compared with the Fortin Standard at Poona, and the corrections determined with reference to the Calcutta standard mentioned above.

The barometers are in all cases situated in masonry buildings to protect them as much as possible from rapid changes of temperature.

The heights above mean sea level of the barometers are given in all Tables. Heights of most stations have been obtained accurately by actual measurement from datum levels determined by the Great Trigonometrical Survey of India; the heights of only a few stations, mostly in Kashmir, have been determined barometrically.

All readings are for station level reduced to 32° F. and to standard gravity.

Temperature.

The older method of exposing thermometers in India lay in the use of large open-sided sheds to protect the instruments from extraneous radiation. A detailed description of the shed and of the methods of exposure will be found in the Instructions to Observers of the India Meteorological Department (1902 edition) and in the Annual Report on the Meteorology of India for the year 1887, page 37. The cost of the sheds and of their upkeep rose greatly after the war, and it became necessary to consider other devices for efficiently shading thermometers. Experiments with other types of shed and with various types of louvred screens were carried out at Agra and described in Vol. XXIV, Part III, of the Memoirs of this department.

As a result it was decided to replace all sheds in India by Stevenson screens, as opportunity offered. The screen adopted for use in India has free inside measurements of about 22″ length, 12″ depth and 16″ height, and is somewhat larger than the pattern approved in 1884 by the Thermometer Screen Committee of the English Meteorological Society and larger too than the "small model" in common use in Germany. It is made of teak wood painted white

and has four double louvred sides and a perforated top and bottom. A sloping extra cover of wood protects the top from sun and rain. The door on the north side has 14 louvres and the remaining sides have 16 louvres each.

A beginning was made with this policy in the year 1923, and by the end of the year 1934, thermometer sheds remained to be replaced by Stevenson screens only at 12 observatories, mostly in Indian States.

Thermometers in use which were issued up to the end of 1931 were verified by comparison with Kew Standard thermometers at Calcutta. Instruments issued from 1932 were compared at Poona with standards provided with certificates of correction from the National Physical Laboratory, Teddington, England. All the thermometers at the observing stations are restandardised from time to time; all readings are corrected to their true values.

Terrestrial radiation.

New terrestrial radiation thermometers were brought into use at most of the departmental first-class observatories and the method of exposure was also altered in 1932. Formerly these thermometers were laid on a thick pad of woollen blanket; but since 1932 they are placed on two wooden forks on a close cropped grass plot so that the bulb of the thermometer is $1\frac{1}{2}$" above ground. The radiation minimum temperatures recorded by these thermometers at 13 stations appear in Table VIII, in which the depression of these temperatures below the minimum temperature in shade at 4 feet above ground is also given. The normals of the radiation minimum temperature and of its depression below the shade minimum temperature are based on more than 50 years data at Calcutta, Lahore and Bombay, 40 years at Jaipur and Bangalore and about 30 years at Madras, Kodaikanal and Srinagar.

Hours of bright sunshine.

Sunshine recorders were in use at 13 stations. The instruments except at Abadan and Lahore are of the standard Campbell-Stokes pattern. At Lahore a Whipple-Casella sunshine recorder was in use. The data from Abadan are from the records of a twin-cylinder Jordan sunshine recorder and are therefore not strictly comparable with those for the other stations.

Surface winds.

All anemometers issued up to the end of 1931 were compared before issue with the standard Beckley anemograph at the Alipore Observatory. Since January 1932 anemometers are issued from Poona after comparison with the standard cup anemometer there. This standard is provided with a certificate of corrections from wind channel tests made by the National Physical Laboratory, Teddington, England, and has also been compared with the Beckley anemograph at Alipore. However, as only instruments with small corrections are issued and as it is impracticable to prevent always slight alterations in exposure resulting from growth of trees or erection of buildings, it has been considered unnecessary to apply any correction to the observed values.

Up to 1911 the factor representing the ratio of air movement to travel of Beckley cups had in India, as in other countries, been taken at 3·0; but from that year the generally accepted factor of 2·2 has been used (*see* note on page 8, Monthly Weather Review, January 1912). Recently the department has begun to introduce totalising anemometers, remodelled at the departmental workshop at Poona from old cup anemometers of the dial pattern. The wind data published consist of the mean hourly air movement as registered by Robinson anemometers during the 24 hours ending at the time of morning observations and the frequency of the wind direction from 8 compass points at both the hours of observation. The resultant direction wherever given is calculated by the use of Lambert's formula in which equal weight is given to each wind observation irrespective of velocity.

The hourly velocities at six stations equipped with Beckley's or Dines P. T. anemographs are given in Table IX.

Humidity and cloud.

The hygrometric data are calculated by means of the departmental "Tables for the reduction of meteorological observations in India". The proportion of cloud is estimated in tenths of the sky expanse, an overcast sky being denoted by 10 and a cloudless sky by 0.

Rainfall.

Symon's raingauge with funnels of 5" diameter are now used at all raingauge stations, with the exception of those in Mysore and Travancore where raingauges of local make having funnels of 4·7 inches diameter are in general use. The time of measuring rainfall is 8 hrs.; local time, throughout India, and the amounts then registered give the rainfall of the previous 24 hours.

The rainfall data for each province are generally tabulated in the office of the Provincial officers controlling registration of rainfall in the province, and published in the provincial gazettes. The data of Baluchistan, Rajputana, Central India, Eastern States and States in the Bombay Presidency are, however, published by the *Meteorological Office, Poona*. These provincial tables are collected together and are issued annually in a separate volume entitled "Rainfall of India". The forty-fourth volume, that of 1934, contains the whole rainfall data of over 3,200 stations which are utilised in preparing Tables XI to XVI on pages A 42 to A 51. In these provincial tables and in the rainfall observations at the meteorological observatories published in this volume a "rainy day" is taken to be one on which 0·10 inch or more of rain is recorded.

The departures from normals given in these tables are based upon the normal values of rainfall published in the Memoirs of the Indian Meteorological Department, Vol. XXIII, Part VII.

Tables.

Tables I to V in the Annual Summary, Part A, corresponding to Tables I to V in the Monthly Weather Report, contain the annual means of stations whose monthly data have appeared in the Monthly Weather Reports.

Table II-A is similar to Table II, and contains the monthly and annual means of those stations which could not be included in the Monthly Weather Report.

Table VI gives the monthly and annual means of observations recorded at 10 hrs. L. M. T. at first class stations. This also contains the daily means of pressure, temperature, humidity and vapour tension which have appeared in

Table D-1 up to 1932. The daily means of pressure, temperature, humidity and vapour tension data given in this table have been obtained from the means of 10 hrs. L. M. T. and 17 hrs. I. S. T. by the application of appropriate corrections, recently derived from the available hourly observations, to reduce them to true mean of the day. The daily means of Kodaikanal are those obtained from the hourly records of self-recording instruments corrected by eye readings. The 10 hrs. L. M. T. data of Bombay, with the exception of cloud, are taken from autographic charts. The departures from normal are based generally on normal values derived from all available data down to 1899 as published in the Indian Meteorological Memoirs, Vol. XVII. The normals of Bombay are those published in the "Climatology of Bombay" and are based on data up to 1920. Those of Kodaikanal are based on 11 years' data from 1901 to 1911.

Table VII gives the monthly values of observations recorded at 10 hrs. and 16 hrs. local time at Katmandu and Seychelles.

The daily means of pressure, etc., given in this table have also been reduced to true mean of day by applying appropriate diurnal corrections to the means of 10 and 16 hrs. The departures from normals are based on normals up to 1899 as in the case of Table VI.

Table VIII gives the abstract of hours of bright sunshine and radiation minimum temperature at 15 stations.

Table IX gives the mean hourly wind velocity at six stations equipped with anemographs. The heights of anemometer cups or their heads above ground are given in brackets against each station.

Table X gives the number of days on which the Nilgiris were visible from Kodaikanal.

Tables XI to XV give the divisional and sub-divisional means of rainfall, and Table XVI gives heavy falls of 10″ and above in 24 hours recorded at over 3,200 rainfall recording stations.

The departures from normal given in Tables I to V and XI to XV are based mostly upon the normal values determined from all the available data down to 1920. In some cases data up to 1930 have been used, while, at certain stations with short period data, normals have been derived by comparison with a neighbouring station having long period normals.

The data of stations under the administrative control of the Meteorological Offices at Calcutta, Karachi and Poona are scrutinised and supplied by the respective centres.

INDIA WEATHER REVIEW, 1934.

ERRATA.

ERRATA TO MONTHLY WEATHER REPORTS, 1934.

[N. B.—Table of corrections on p. e10 should also be seen.]

Reference.	Column.	Replace the existing figures, if any, by
JANUARY.		
Pages 4-5.		
Mergui	5.	29·754.
Sandoway	2.	28.
Toungoo	3, 4 and 5.	29·782, —·040 and 29·669.
Kyaukpyu	26, 33, 34 and 50.	1·8, 2·7, +1·0 and 7.
Bhamo	10 and 11.	47·8 and —1·0.
Dibrugarh	3 and 4.	29·632 and —·064.
Sibsagar	14 and 15.	54·7 and 65·1.
Dhubri	3, 4 and 5.	29·886, —·032 and 29·774.
Silchar	2.	96.
Comilla	5.	29·848.
Mymensingh	2 and 4.	62 and —·030.
Faridpur	2 and 5.	27 and 29·864.
Barisal	5.	29·875.
Khulna	4.	—·025.
Saugor Island	3, 4 and 5.	29·972, —·042 and 29·884.
Sandheads	2, 3, 4 and 5.	20, 29·957, —·050 and 29·881.
Krishnagar	2.	48.
Berhampore	2 and 4.	62 and —·032.
Bogra	2 and 4.	63 and —·039.
Jalpaiguri	6 and 7.	73·7 and +0·1.
Pages 6-7.		
Balasore	2.	65.
Chandbali	28 and 32.	—0·39 and —0·7.
Angul	3, 4, 5, 10 and 11.	29·520, —·047, 29·420, 53·0 and —2·6.
Hazaribagh	34.	+1·6.
Pusa	2, 3 and 4.	165, 29·794 and —·074.
Motihari	3 and 4.	29·769 and —·033.
Patna	10 and 11.	50·8 and —0·1.
Agra	6 and 7.	69·8 and —4·4.
Bareilly	3, 4 and 5.	29·429, —·011 and 29·349.
Ambala	10 and 11.	43·7 and +0·4.
Page 8.		
Khushab	3, 4, 5, 10, 11 and 13.	29·410, —·023, 29·334, 34·5, —7·0 and 4 days.
Lyallpur	3 and 4.	29·385 and —·055.

Reference.	Column.	Replace the existing figures, if any, by
JANUARY—*contd.*		
Page 8—contd.		
Montgomery	16 and 17.	39·5 and 53·5.
Srinagar	3 and 4.	24·865 and —·110.
Muzaffarabad	6, 7, 8 and 9	55·6, —3·7, 70 and 27.
Miranshah	2 and 3.	3,040 and 26·674.
Dera Ismail Khan	12.	27.
Quetta	2 and 15; 14	5,405 and 42·0(*m*); reject 20·3.
Kalat	14 and 16.	21·2 (*h*) and 18·2 (*h*).
Dalbandin	10, 11, 12 and 13.	21·5, —13·2, 10 and 12.
Naushahro	2.	140.
Bikaner	16.	37·2 (*a*).
Jaipur	3, 4 and 5.	28·524, —·052 and 28·447.
Jamnagar	3 and 4.	29·953 and —·038.
Rajkot	14 and 15.	53·5 and 76·9.
Veraval	3, 4, and 5.	29·968, —·019 and 29·865.
Surat	14 and 15.	58·6 and 80·9.
Footnote—*Insert* "(*a*) Mean of 30 days."		
Page 10.		
Amraoti	3 and 4.	28·735 and —·036.
Saugor	6 and 7.	74·1 and —2·8.
Seoni	2.	2,030.
Marmagao	16.	67·6.
Gadag	3.	27·794.
Pages 12-13.		
Trivandrum	3, 4 and 5.	29·652, —·058 and 29·556.
Cuddalore	2.	39.
Cuddapah	3 and 4.	29·508 and —·048.
Shillong	4.	—·052.
Darjiling	6 and 7.	45·3 and —2·0.
Kalimpong	2 and 4.	3,867 and —·053.
Mussooree	27, 29, 30 and 31.	3·43, 0·88, 30 and 6.
Parachinar	2 and 4.	5,673 and —·089.
Kodaikanal	7, 9 and 11.	—1·0; 4, 22 and +0·9.
Coonoor	3.	24·453.
Nuwara Eliya	2.	6,170.

Reference.	Column.	Replace the existing figures, if any, by
JANUARY—*concld.*		
Page 16.		
Gurdaspur . .	10 and 11.	46·8 and 42·8.
FEBRUARY.		
Page 20.		
Sandoway . .	2.	28.
Toungoo . .	3, 4 and 5.	29·756, —·018 and 29·634.
Bhamo . . .	10 and 11.	53·0 and +0·4.
Dibrugarh . .	3 and 4.	29·595 and —·045.
Sibsagar . .	14 and 15.	58·2 and 68·9.
Dhubri . . .	3, 4 and 5.	29·837, —·021 and 29·722.
Silchar . . .	2.	96.
Mymensingh . .	2 and 4.	62 and —·032.
Faridpur . .	2.	27.
Khulna . .	4.	—·040.
Jessore . . .	5.	29·793.
Saugor Island .	3, 4 and 5.	29·904, —·051 and 29·806.
Sandheads . .	2, 3, 4, 5, 18 and 19.	20, 29·884, —·065, 29·795, ·616 and —·065.
Krishnagar . .	2.	48.
Berhampore . .	2 and 4.	62 and —·041.
Bogra . . .	2 and 4.	63 and —·046.
Jalpaiguri . .	4, 6 and 7.	—·034, 76·1 and —0·5.
Pages 22-23.		
Balasore . .	2.	65.
Chandbali . .	28 and 32.	—0·56 and —0·5.
Angul . . .	3, 4, 5, 10 and 11.	29·451, —·042, 29·330, 57·9 and —3·4.
Hazaribagh . .	34.	+1·6.
Pusa . . .	2, 3 and 4.	165, 29·759 and —·029.
Patna . . .	10 and 11.	56·2 and +2·0.
Bareilly . .	3, 4 and 5.	29·339, —·037 and 29·241.
Ambala . .	10 and 11.	50·0 and +2·9.
Pages 24-25.		
Khushab . .	3, 4 and 5.	29·301, —·078 and 29·206.
Lyallpur . .	3 and 4.	29·291 and —·068.
Montgomery . .	16 and 17.	49·4 and 65·0.
Bahawalpur . .	6.	82·6.

Reference.	Column.	Replace the existing figures, if any, by
FEBRUARY—*contd.*		
Pages 24-25—contd.		
Srinagar . .	3 and 4.	24·969 and +·042.
Dras . . .	6, 7, 10, 11, 13, 14, 24, 25, 27, 28, 33 and 34.	23·2, +1·4, —3·5, +7·2; 2, 3, 6; 8·0, 5·4, —0·1, 3·42, +0·75, 1·5 and +1·0.
Miranshah . .	2 and 3.	3,040 and 26·621.
Quetta . . .	2 and 14.	5,405 and 42·0 (*l*).
Dalbandin . .	10, 11 and 12.	37·4, —1·6 and 14.
Naushahro . .	2.	140.
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Rajkot . . .	14 and 15.	61·9 and 91·7.
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Surat . . .	14 and 15.	65·6 and 90·3.
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Saugor . . .	6 and 7.	83·5 and +3·0.
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Bhamo . .	10 and 11.	58·2 and —1·3.
Dibrugarh . .	3 and 4.	29·515 and —·039.
Sibsagar . .	14 and 15.	65·8 and 76·5.
Dhubri . . .	3, 4 and 5.	29·746, —·014 and 29·606.
Silchar . . .	2.	96.
Mymensingh . .	2 and 4.	62 and —·021.
Khulna . .	4.	—·013.
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Saugar Island .	3, 4 and 5.	29·837, —·026 and 29·732.
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Berhampore . .	2 and 4.	62 and —·019.
Bogra . . .	2 and 4.	63 and —·032.
Jalpaiguri . .	6 and 7.	85·2 and +0·5.
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Sibsagar . .	14 and 15.	71·3 and 77·4.
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Silchar . . .	2.	96.
Mymensingh . .	2 and 4.	62 and —·022.
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Bogra . . .	2 and 4.	63 and —0·30.
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Pusa	2 and 4.	165 and —·040.
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Srinagar	3 and 4.	24·915 and +·047.
Miranshah	3.	26·495.
Rajkot	14 and 15.	81·3 and 102·1.
Veraval	3, 4 and 5.	29·789, —·028 and 29·690.
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Page 58.		
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Sangor	6 and 7.	99·8 and —0·4.
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Kodaikanal	7 and 11.	+1·1 and —1·5.
Coonoor	3.	24·449.
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Bhamo	10 and 11.	72·2 and +0·1.
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Dibrugarh	3 and 4.	29·407 and +·004.
Sibsagar	14 and 15.	75·0 and 80·0.
Dhubri	3, 4 and 5.	29·628, +·021 and 29·504.
Silchar	2.	96.
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Pusa	2 and 4.	165 and +·004.
Patna	10 and 11.	79·0 and +1·3.
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Srinagar	3 and 4.	24·888 and +·071.
Miranshah	3.	26·461.
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Rajkot	14 and 15.	84·6 and 102·3.
Veraval	3, 4 and 5.	29·783, + ·030 and 29·702.
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Reference.	Column.	Replace the existing figures, if any, by
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Kyaukpyu . .	12, 13, 33 and 34.	73, 14, 2·1 and —0·9.
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Bhamo . . .	10 and 11.	73·8 and —0·7.
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Reference.	Column.	Replace the existing figures, if any, by
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Jalpaiguri . .	6 and 7.	87·0 and —1·6.
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Pusa . . .	2 and 4.	165 and +·064.
Patna . . .	10 and 11.	79·1 and —0·7.
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Miranshah . .	3.	26·287.
Rajkot . . .	15.	91·9.
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Kyaukpyu . .	33 and 34.	3·8 and +0·9.
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Minbu . . .	3, 4 and 5.	29·474, —·017 and 29·398.
Monywa . .	4.	—·015.
Bhamo . . .	10 and 11.	76·6 and +1·7.
Dibrugarh . .	3 and 4.	29·237 and —·011.
Sibsagar . .	14 and 15.	81·0 and 83·7.
Dhubri . . .	3, 4 and 5.	29·465, +·010 and 29·374.
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Saugor . . .	6 and 7.	83·9 and —2·2.
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Monywa . .	4.	+·015.
Bhamo . . .	10 and 11.	76·3 and +1·3.
Dibrugarh . .	3 and 4.	29·312 and +·016.
Sibsagar . .	14 and 15.	81·2 and 87·0.
Dhubri . . .	3, 4 and 5.	29·549, +·040 and 29·465.
Silchar . .	2.	96.
Saugar Island .	3, 4 and 5.	29·546, —·021 and 29·469.
Sandheads . .	3, 4 and 5.	29·534, —·026 and 29·452.
Bogra . . .	2, 4, 6 and 7.	63, +·004, 88·8 and +0·3.
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Kyaukpyu . .	33 and 34.	3·3 and +1·5.
Minbu . . .	3, 4 and 5.	29·560, —·040 and 29·450.
Monywa . .	4.	—·036.
Bhamo . .	10 and 11.	75·9 and +1·8.
Dibrugarh . .	3 and 4.	29·361 and —·037.
Sibsagar . .	2, 14 and 15.	317, 79·6 and 84·2.
Dhubri . .	3, 4 and 5.	29·593, —·026 and 29·485.
Saugor Island .	3, 4 and 5.	29·629, —·053 and 29·540.
Sandheads . .	2, 3, 4 and 5.	20, 29·627, —·061 and 29·548.
Bogra . . .	2 and 4.	63 and —·041.
Jalpaiguri . .	6 and 7.	88·1 and +0·2.
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Balasore . .	2.	65.
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Patna . . .	10 and 11.	79·9 and +1·1.
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Jhansi . . .	5.	28·765.
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Saugor . . .	6 and 7.	82·6 and —3·9.
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Kanker . .	2.	1,318.
Hanamkonda .	27 and 28.	9·76 and +2·93.
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Darjiling . .	6 and 7.	66·4 and +1·0.
Kalimpong . .	3, 4 and 5.	25·931, —·033 and 25·845.
Kodaikanal . .	7 and 11.	+3·3 and +0·5.
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Montgomery .	16, 17, 20 and 23.	79·3, 81·4, ·879 and 55.
Page 144.		
Gurdaspur . .	10 and 11.	81·6 and 74·2.
OCTOBER.		
Page 147.		
Bengal (under Sub-division).	3, 4 and 5.	5·20, +2·64 and +51.
Pages 148-149.		
Gwa	5.	29·781.
Sandoway . .	3 and 5.	29·840 and 29·765.
Toungoo . .	3, 4 and 5.	29·721, +·009 and 29·623.

Reference.	Column.	Replace the existing figures, if any, by
OCTOBER—*contd.*		
Pages 148-149 —contd.		
Kyaukpyu . .	33 and 34.	2·9 and +1·3.
Minbu . .	3, 4 and 5.	29·707, +·006 and 29·597.
Monywa . .	4.	+·010.
Bhamo . . .	10 and 11.	70·8 and +1·2.
Dibrugarh . .	3 and 4.	29·558 and +·020.
Sibsagar . .	14 and 15.	74·4 and 78·4.
Dhubri . .	3, 4 and 5.	29·782, +·018 and 29·679.
Barisal . . .	5.	29·759.
Satkhira . .	19.	—·025.
Saugor Island .	3, 4 and 5.	29·839, +·003 and 29·756.
Sandheads . .	2, 3, 4 and 5.	20, 29·829, —·011 and 29·754.
Bogra . . .	2 and 4.	63 and +·002.
Jalpaiguri . .	6 and 7.	85·2 and —1·4.
Page 150.		
Balasore . .	2.	65.
Angul . . .	3, 4, 5, 10 and 11.	29·404, +·014, 29·313, 71·4 and 0.
Patna . . .	10 and 11.	71·8 and —1·0.
Agra . . .	6 and 7.	91·2 and —1·7.
Page 152.		
Khushab . .	3, 4 and 5.	29·258, +·012 and 29·168.
Srinagar . .	4.	+·092.
Quetta . . .	14, 16, 18, 19, 21 and 22.	45·3 (*b*), 34·9 (*b*), ·084 (*b*), —·030, 29 (*b*) and —2.
Jamnagar . .	3 and 4.	29·853 and +·017
Pages 154-155.		
Amraoti . .	3 and 4.	28·670 and +·016.
Saugor . . .	6 and 7.	85·9 and —2·4.
Seoni . .	2.	2,030.
Kanker . .	2.	1,318.
Hanamkonda .	27 and 28.	0·28 and —1·74.
Pages 156-157.		
Negapatam . .	3, 4 and 5.	29·805, —·006 and 29·704.
Cuddalore . .	2.	39.
Cuddapah . .	3 and 4.	29·424 and +·006.

Reference.	Column.	Replace the existing figures, if any, by
OCTOBER—*concld.*		
Pages 156-157 —contd.		
Darjiling . .	6 and 7.	61·0 and —0·7.
Kalimpong . .	3, 4 and 5.	26·054, —·018 and 25·987
Mussooree . .	33.	4·3 (*l*).
Drosh . . .	31 and 32.	4 and +1·4.
Kodaikanal . .	7 and 11.	+0·4 and +1·0.
Coonoor . .	3.	24·440.
Page 158.		
Jask . . .	15.	88·5.
Page 160.		
Gurdaspur . .	10 and 11.	70·6 and 60·6.
Rangpur . .	3, 4 and 5.	3·98, —1·38 and 1·81.
NOVEMBER.		
Pages 164-165.		
Sandoway . .	3 and 5.	29·891 and 29·810.
Toungoo . .	3, 4 and 5.	29·769, —·007 and 29·672.
Kyaukpyu . .	5, 24 to 29, 33 and 34.	29·812, 4·2, 0, 4·5, 3·63, —2·94, 2·02, 3·3 and +1·7.
Minbu . . .	3, 4 and 5.	29·775, —·015 and 29·658.
Monywa . .	4.	—·007.
Bhamo . . .	10 and 11.	59·3 and —0·7.
Dibrugarh . .	3 and 4.	29·617 and —·030.
Sibsagar . .	14 and 15.	65·5 and 70·1.
Dhubri . . .	3, 4 and 5.	29·855, —·018 and 29·756.
Silchar . . .	3 and 4.	29·873 and —·003.
Saugor Island .	3, 4 and 5.	29·933, —·016 and 29·852.
Sandheads . .	2, 3, 4 and 5.	20, 29·921, —·013 and 29·853.
Bogra . . .	2 and 4.	63 and —·016.
Jalpaiguri . .	6 and 7.	79·3 and —2·5.
Page 166.		
Balasore . .	2.	65.
Angul . . .	3, 4, 5, 10 and 11.	29·503, +·003, 29·410, 60·1 and —2·3.
Patna . . .	10 and 11.	59·6 and —1·4.
Page 168.		
Khushab . .	3, 4 and 5.	29·357, —·032 and 29·269.
Srinagar . .	4.	+·056.
Las Bela . .	15, 20 and 23.	89·4 (*b*), ·295 (*b*) and 22 (*b*).
Page 170.		
Amraoti . .	3 and 4.	28·746 and +·001.
Saugor . . .	6 and 7.	79·6 and —2·7.
Seoni . . .	2.	2,030.
Page 172.		
Negapatam . .	3, 4 and 5.	29·874, +·018 and 29·782.
Cuddalore . .	2.	39.
Cuddapah . .	3 and 4.	29·517 and +·025.
Darjiling . .	6 and 7.	51·6 and —4·1.
Kalimpong . .	3, 4 and 5.	26·077, —·053 and 26·002.
Drosh . . .	3.	25·465.
Kodaikanal . .	7 and 11.	+1·0 and —0·9.
Coonoor . .	3.	24·460.
Page 175.		
Ispahan (*d*) . .	27 to 32.	0·05, —0·53, 0·03, 20, 0 and —1·4.
Page 176.		
Gurdaspur . .	10 and 11.	53·4 and 48·3.
DECEMBER.		
Pages 180-181.		
Tavoy . . .	3 and 4.	29·962 and +·037.
Sandoway . .	3 and 5.	29·985 and 29·905.
Toungoo . .	3, 4 and 5.	29·868, +·043 and 29·762.
Kyaukpyu . .	5, 24, 25, 26, 33 and 34.	29·911, 1·7, —1·4, 2·0, 3·2 and +1·6.
Minbu . . .	3, 4 and 5.	29·887, +·045 and 29·758.
Monywa . .	4.	+·041.
Bhamo . .	10 and 11.	48·3 and —3·0.
Dibrugarh . .	3 and 4.	29·728 and +·032.
Sibsagar . .	14 and 15.	54·4 and 64·9.
Dhubri . . .	3, 4 and 5.	29·969, +·042 and 29·871.
Saugor Island .	3, 4 and 5.	30·048, +·029 and 29·958.
Sandheads . .	2, 3, 4 and 5.	20, 30·025, +·015 and 29·948.
Jalpaiguri . .	6 and 7.	75·4 and —0·6.

Reference.	Column.	Replace the existing figures, if any, by
	DECEMBER—*contd.*	
Page 182.		
Balasore . .	2.	65.
Angul . . .	3, 4, 5, 10 and 11.	29·591, +·024, 29·487, 55·9 and +1·5.
Patna .	10 and 11.	54·6 and +2·8.
Page 184.		
Khushab . .	3, 4 and 5.	29·459, +·006 and 29·387.
Naushahro . .	6, 10 and 12.	78·7, 47·5 and 37.
Ajmer . . .	2, 3, 4 and 5.	1,593, 28·423, —·011 and 28·349.
Page 186.		
Guna . .	3 and 5.	28·452 and 28·374.
Sutna . . .	3, 4 and 5.	28·998, +·019 and 28·905.
Amraoti . .	3 and 4.	28·795 and +·006.
Saugor . . .	6 and 7.	75·5 and —1·5.
Seoni . . .	2.	2,030.
Pendra . .	3, 4 and 5.	27·974, +·014 and 27·895.

Reference.	Column.	Replace the existing figures, if any, by
	DECEMBER—*contd.*	
Page 188.		
Negapatam . .	3, 4 and 5.	29·931, +·027 and 29·844.
Cuddalore . .	2.	39.
Cuddapah . .	3 and 4.	29·580 and +·027.
Darjiling . .	6 and 7.	48·2 and —1·2.
Kalimpong . .	3, 4 and 5.	26·146, +·016 and 26·069.
Kodaikanal . .	7 and 11.	—0·1 and —1·9.
Coonoor . .	3.	24·485.
Pages 190-191.		
Ispahan (*d*) . .	27 to 32.	0·13, —0·74, 0·03, 9, 0 and —1·9.
Tehran (*d*) . .	10, 11, 14, 15, 16, 17, 18, 20, 21, 23, 24, 26, 27, 28, 29 and 31 to 34.	32·2, —1·0, 39·1, 44·5, 35·9, 40·6, ·177, ·211, 75, 71, 4·9, 3·5, 1·39, +0·16, 0·46, 4, +0·2, 0·7, and —1·3.
Addenda for November.		
Tehran (*d*).	10, 11, 14, 15, 16, 17, 18, 20, 21, 23, 26 to 29, 31 to 34 and 47.	39·4, —3·4, 46·6, 54·0, 42·7, 47·5, ·231, ·248, 72, 60, 4·3, 1·59, +0·71, 0·57, 5, +2·5, 0·6, —1·4 and 1.
Page 192.		
Gurdaspur . .	10 and 11.	49·8 and 47·5.

TABLE OF CORRECTIONS TO BE APPLIED TO DATA IN TABLES II OR II-A OF THE MONTHLY WEATHER REPORTS AND ANNUAL SUMMARY PART A, 1934.

Station.	Element.	Correction.	Period.
Karwar	Pressure	+·004	May to Dec.
Jubbulpore	Do.	+·004	Jan. to Dec. and the year.
New Delhi	Wet Bulb	—0·5	Ditto.
Rawalpindi	Pressure	—·005	Ditto.
Murree	Do.	—·012	Ditto.
Chanda	Do.	+·004	Ditto.
Seoni	Dry Bulb	—0·3	Ditto.
Nagpur	Pressure	+·004	Ditto.
Marmagao	Do.	+·004	Ditto.
Surat	Do.	+·004	Jun. to Dec.
Dwarka	Do.	+·004	Jan. to Dec. and the year.
Miranshah	Do.	Data rejected	Jan. to Nov. and the year.
Veraval	Do.	+·003	May to Dec.

Reference.	Column.	Replace the existing figures, if any, by
Page A 5.		
Assam (under division).	8.	+·001.
Pages A6-A7.		
Narayanganj . .	51.	49.
Footnote—Read as " *Data not available for complete year, hence no annual means."		
Pages A8-A9.		
Angul . . .	38.	27.
Mainpuri . .	20.	·509.
Sialkot . . .	43.	94.
Rawalpindi . .	37.	6.
Pages A10-A11.		
Khushab . .	3, 4 and 5.	29·165, —·006 and 29·070.
Khanpur . .	6.	93·8.
Srinagar . .	5.	*24·826.
Nokkundi . .	53.	Nokkundi.
Ajmer . . .	2, 3 and 5.	1,593, 28·216 and 28·128.
Pages A12-A13.		
Dwarka . .	5.	29·711.
Veraval . .	3, 4 and 5.	29·817, +·002 and 29·714.
Surat . . .	3, 4 and 5.	29·787, —·012 and 29·694.
Nowgong . .	25.	0.
Sutna . . .	16 and 25.	63·8 and —0·1.
Amraoti . .	3 and 4.	28·585 and —·011.
Saugor . . .	6 and 7.	86·6 and —1·3.
Pendra . . .	13.	I.
Karwar . .	3, 4 and 13.	28·813, —·001 and †.
Footnote on page A13—Read as " †The lowest minimum temperature was recorded in January, February, November and December."		
Pages A14-A15.		
Sholapur . .	24.	3·2.
Miraj . . .	24.	5·0.
Vellore . . .	27.	40·78.
Cocanada . .	27.	40·53.
Vizagapatam . .	27.	33·65.
Calingapatam . .	27.	25·47.
Gopalpur . .	23 and 27.	78 and 44·72.

Reference.	Column.	Replace the existing figures, if any, by
Page A16.		
Kodaikanal . .	7 and 11.	+0·5 and —0·5.
Pages A18-A19.		
Table Island—Aug.	11.	—0·2.
Car Nicobar—Aug.	31.	16.
Minicoy—May .	34.	—1·6.
Minicoy—Oct. .	7.	—0·1.
Pages A20-A21.		
Gyantse—Apr. .	14, 16 and 21.	40·6(*b*), 40·1(*b*) and 96(*b*).
Gyantse—Oct. .	13.	30, 31.
Kashgar—May (*b*) .	3.	25·28.
Pages A22-A23.		
Hiraidi—Jun. .	30.	10.
Abadan—Jan. .	10.	40·0.
Footnote on page A22—Read as " *Pressure reduced to M. S. L."		
Page A25.		
Ispahan. . .	31.	17.
Page A26.		
Brahmanbaria .	20.	X.
Goalundo . .	20.	VI.
Pabna . . .	20.	VI.
Gurdaspur . .	10 and 11.	69·0 and 61·2.
Wana . . .	24.	*Reject* 1·7.
Anantapur . .	8.	—14·1.
Page A27.		
Calcutta—May .	2.	29·653.
Lahore—Jan. .	9.	47·8.
Lahore—Jun. .	2.	28·811.
Page A28.		
Peshawar—Mar. .	23.	2.
Peshawar—Apr. .	2.	28·624.
Quetta—Mar. .	2.	24·676.
Page A29.		
Poona—Nov. .	4.	+·017.

Reference.	Column.	Replace the existing figures, if any, by
Page A30.		
Bangalore—Dec. .	17.	—9.
Page A33.		
Katmandu—Sep. .	47.	+1·85.
Page A34.		
Lahore—Mar. .	18.	7·8.
Page A35.		
Drigh Road (Karachi).	1.	Lat. 24° 53′N. Long. 67° 07′E.
Jaipur—Aug. .	7.	2.
Page A36.		
Bombay—Apr. .	12.	8·9.
Poona—Jun. . .	11.	3·5.
Poona—Jul. . .	8.	78·7.
Bangalore—Nov. .	3.	2.
Page A39.		
Lahore—Aug. .	18-19.	2·0.
Page A49.		
Kodaikanal—Jun. .	17-18.	8·5.

Reference.	Column.	Replace the existing figures, if any, by
Page A42.		
Sind . . .	18.	+1·66.
Madras . . .	8.	0·76.
Pages A44-A45.		
Assam . . .	24 and 35.	17·87 and +2·37.
United Provinces East.	18.	—0·4.
Punjab Southwest .	14.	1·09.
Baluchistan . .	9.	0·01.
Rajputana West .	34.	2·15.
Pages A46-A47.		
Central India West	63.	+10·0.
Mysore . . .	38.	—0·2.
Malabar . .	63.	—14·8.
Page A51.		
Cherrapunji Welsh Mission House (fifth line from bottom).	3.	12th July.
Sambalpur . .	6.	0·10.
Nainital . .	6.	3·05.
Dharamsala (Lower)	6.	3·98.
Read " Manga " in column 2 as " Mangaon " in Kolaba.		
Bhoga m a n d a l a (bottom line).	6.	7·05.

MGIPC—M—VIII-3-7—25-9-36—390.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1934

ANNUAL SUMMARY

PART A.

SUMMARY OF WEATHER WITH TABLES

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Table I—Divisional and sub-divisional means	A5	Table X—Visibility of the Nilgiris from Kodaikanal	A41
Tables II—VII—Abstract of observations at individual stations	A6	Tables XI—XV—Divisional and sub-divisional means of rainfall and rainy days .	A42
Table VIII—Sunshine and Nocturnal Radiation	A34	Table XVI—Days of Rainfall of 10″ and above	A51

Published by Authority of the Government of India

UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.,

Director General of Observatories.

PUBLISHED BY MANAGER OF PUBLICATIONS, DELHI.
PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, NEW DELHI.
1936.

Price Rs. 3-14 or 6s. 6d.

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INDIA WEATHER REVIEW, 1934.

ANNUAL SUMMARY

PART A

WEATHER AND RAINFALL OF 1934.

Summary.—During 1934, the winter rains were deficient in north-west India but were in excess in Burma, Assam, Bengal, and the Madras Presidency. The rainfall associated with thunderstorms during the hot weather, was, on the whole, deficient over the country except in Assam in spite of numerous destructive thunderstorms during May. Although the monsoon appeared somewhat late—doing so on the 8th June in Malabar and towards the end of the 2nd week of June in Assam and Bengal—it established itself rapidly afterwards; there were no marked or prolonged breaks in it and the seasonal rainfall was fairly well-distributed. Over the country as a whole the monsoon rainfall was normal, the only areas which recorded a defect being Mysore and the Madras Presidency. During the period October—December, Baluchistan received a large excess of precipitation owing to the passage of as many as 11 western disturbances across north-west India in December.

Two cold spells, the first a prolonged one and the second a severe one, occurred in north-west and central India in January and early February and record low night temperatures were reached at several stations. The second cold wave extended to Bengal and the north Deccan also. Considerable damage was caused to crops by the severe frost associated with these cold spells.

I.—*The cold weather period, January and February.*—In *January*, weather was drier than usual in north-west India excepting Kashmir despite seven western disturbances which affected the weather there. During *February*, five western disturbances affected north-west India but precipitation was again deficient.

A prolonged cold spell prevailed for about a fortnight after the 10th in *January* over north-west and central India and the north Deccan. Another cold wave followed in the wake of a western disturbance towards the end of January, extended from north-west India eastwards to Bengal and southwards to the north Deccan by the 31st and kept temperatures low in northern and central India and the north Deccan till the 6th February. During these cold spells, night temperatures fell below the freezing point at many stations and frost occurred, causing considerable damage to the crops and loss of cattle and even of some lives at certain places. The night temperatures recorded at several stations in north-west and central India were almost as low as those recorded in cold spells in January in 1905, 1925, 1927 and 1929, while the first cold spell of 1934 persisted much longer than the similar spells mentioned above. In *February* a warm spell affected north-west India and the adjoining parts of the United Provinces and Central India between the 7th and 25th and some of the stations recorded temperatures higher than those recorded in previous years in February. The total rainfall during the cold weather period was in moderate to large excess in the Bay Islands, Upper Burma, Assam, Bengal, Bihar, Malabar, and south-east Madras, in slight excess in the east United Provinces, normal in Mysore, in slight defect in the west United Provinces and east Central India and in moderate to large defect elsewhere. South-east Madras recorded nearly thrice its usual amount.

The mean maximum temperature was above normal in the North-West Frontier Province, as a result of deficient rainfall there during the period. Elsewhere, the mean temperatures were normal.

Skies were more clouded than usual in Burma, Bengal, the Bombay Presidency outside Sind, Hyderabad, the Madras Presidency and in Mysore and less so than usual in the United Provinces, Central India and the Central Provinces, the Punjab, Sind and Rajputana.

Air was less moist than normal in Central India, the Central Provinces, north-west India and Hyderabad.

II.—*The Hot Weather period, March to May.*—During the month of *March*, five western disturbances passed across the country and about twice the usual precipitation occurred in the North-West Frontier Province, the Punjab and the United Provinces. The activity of thunderstorms in northeast India was however much less marked than usual. Thunderstorms occurred in the Peninsula on some days but the associated rainfall was less than usual except in Malabar.

In *April*, six western disturbances affected weather over India but precipitation was deficient in north-west India excepting Kashmir. Thunderstorm rain was normal in Upper Burma, Assam, Bengal and the interior of the Peninsula. In connection with a temporary advance of the monsoon in the south of the Bay of Bengal a storm formed there on the 19th and caused widespread and heavy rainfall in Tenasserim and the Pegu and Irrawaddy divisions.

During *May*, rainfall was deficient over north-west India excepting Kashmir and the north-west frontier despite the passage of eight western disturbances, probably because their track was somewhat more northerly than usual. Rainfall was also deficient over the rest of the country excepting Assam in spite of numerous destructive thunderstorms. An advance of the monsoon took place in the south of the Bay of Bengal during the last week of the month, but the current remained shallow. Associated with this advance, however, there was fairly widespread rain in Lower Burma and local rain in Upper Burma.

There was a spell of high day temperatures in the east and north Punjab, the United Provinces, the central parts of the country and Hyderabad between the 25th and 28th of May. It is reported that during this spell some deaths due to heat strokes occurred in Delhi and Nagpur.

The total rainfall during the hot weather period was in slight excess in Assam, normal in the Punjab and the North-West Frontier Province, in slight defect in Lower Burma, the west United Provinces, east Rajputana, north Hyderabad and south-east Madras and in moderate to large defect elsewhere.

Mean temperatures were normal.

Skies were less than normally clouded in the United Provinces, Central India, the Central Provinces, Rajputana, the Bombay Presidency (including Sind) and more clouded than usual in the Punjab, the North-West Frontier Province and Mysore.

Humidity was in defect in Hyderabad, Central Provinces, Central India, Bihar and Orissa, the United Provinces and north-west India excluding the Punjab.

III.—*The South-west Monsoon period, June to September.*—The chief features of the weather during *June* were the somewhat late appearance but subsequent rapid establishment of the monsoon, leading to well distributed rainfall over the country. An advance of the monsoon occurred in the south-east Arabian Sea about 2nd June. The monsoon gradually strengthened thereafter and appeared in Malabar on the 8th, extending northwards along the west coast of the Peninsula on the succeeding days. A depression formed off Kanara-Konkan in front of the monsoon current and its movement subsequently as a low pressure area merging into the seasonal low in north-west India helped the in flow of moist air into the Deccan, the central parts of the country, Bihar and Orissa, the United Provinces, Rajputana and the western Himalayas and, consequently, the establishment of the monsoon in the Deccan about the middle of the month and in central and north-west India and the United Provinces between the 22nd and 26th. The Arabian Sea branch of the monsoon current gave normal rainfall in the Peninsula and excess rainfall in north-west India and central India.

The Bay monsoon current which extended into Burma towards the end of May remained shallow during the first three weeks of June ; it had however extended into Assam and Bengal towards the end of the second week. The current began to deepen at the beginning of the last week and a shallow depression formed in the north-west Bay on the 26th. This and another depression which formed at the head of the Bay at the end of the month were responsible for an extension of the monsoon into Bihar and Orissa during the last week. This branch of the monsoon caused normal rainfall for the month in Burma and north-east India excepting Bihar. Very heavy rain occurred in and near the Assam hills towards the end of the third week and caused severe floods in the Brahmaputra river resulting in loss of lives and cattle, considerable damage to property in the neighbourhood and in the interruption of railway traffic.

During the first ten days of *July*, the monsoon was generally active over the country except in the south of the Peninsula. This activity was associated with two depressions

which had formed in the north Bay of Bengal. After the 10th, the monsoon generally weakened over the Peninsula and Central and north west India and its activity during the next one week was confined to Burma, south-east Bengal and the hills and sub-montane districts from Assam to the east Punjab. A low pressure wave from the east moved across Burma and the north Bay to Chota Nagpur and Orissa between the 17th and 21st and was responsible for a strengthening of the monsoon to a certain extent over the country excepting north-west India. The monsoon strengthened further on the 23rd and during the last week, it was on the whole strong in the Peninsula, Upper Burma and from Assam to the east and north Punjab. Locally heavy rain in the hills of the east Punjab and the United Provinces caused floods in rivers there causing considerable damage to property in villages on their banks. Widespread rain in north Bihar also caused floods there which, accentuated perhaps by changes in level due to the great earthquake in January, are reported to have done considerable damage to property in Motihari and Muzaffarpur districts.

In *August*, the monsoon was normally active over the country, expecting the north-west, during the first three weeks. It weakened generally in the Peninsula as far north as the Central Provinces and in the north-west of India thereafter and over the rest of the country after the 25th.

In the beginning of *September* the monsoon was weak over the country. After the 4th the Bay monsoon strengthened and a depression formed off the Orissa—Circars coast on the 6th. Its subsequent movement was responsible for strong monsoon in Lower Burma, the central parts of the country, east Rajputana and the east United Provinces. With the strengthening of the Bay monsoon and the passage of a low pressure wave from the east across Burma, a depression formed off the Chittagong—Arakan coast at the beginning of the third week and subsequently developed into a storm. Widespread and heavy rain fell along and near the track of this storm.

On the whole, the monsoon was strong during the month in the central parts of the country, normal in Burma and north-east India and weak generally in the Peninsula. It withdrew from north-west India during the middle of the month.

In connection with the westward movement of a low pressure wave from the China Seas towards the Chittagong—Arakan coast across Burma, widespread and locally heavy rain occurred on the Burma coast and in central Burma on the last three days of September.

Day temperatures were generally below normal in north-west and central India between the 2nd and 11th July in connection with the activity of the monsoon there. During August and September, the temperature distribution was more or less normal.

The total rainfall of the season was in slight to moderate excess in the Bay Islands, Orissa, Baluchistan, Rajputana, Central India, Berar, the Central Provinces, in slight to moderate defect in the east and north Punjab, Kashmir, Mysore, south Madras and the Madras Deccan and normal elsewhere. Mean temperatures remained normal throughout the season.

Cloudiness was in excess in the United Provinces.

IV.—*The period of retreating south-west Monsoon, October to December.*—During the first week of *October*, a depression developed at the head of the Bay of Bengal and caused strong monsoon in Bengal. During the second week, a storm formed off the Circars coast and caused a rainy spell in north-east India. After this, the south-west monsoon withdrew from the country. North-east monsoon conditions set in over the south Bay of Bengal and in south Madras at the end of the third week. Other features of the weather during the month were (1) the movement of unsettled conditions from the south-west Bay to the south-east Arabian Sea across south Madras causing widespread rainfall in the Peninsula with locally heavy falls on the Coromandel coast, in the Ceded Districts and in Mysore and (2) the passage of five western disturbances across north-west India.

In *November* there were three storms, one in the Arabian Sea and two in the Bay of Bengal, while four western disturbances passed across north-west India. The Arabian Sea storm was the result of development of unsettled conditions which travelled at the end of October from the south-west Bay of Bengal to the south-east Arabian Sea. It caused widespread rain in the west off the Peninsula, in the west Central Provinces and in the north Madras coast. Heavy falls of rain in the Bombay Deccan caused floods in many rivers and were responsible for damage and casualties at some places.

In association with the two Bay storms of the month, widespread and locally heavy falls occurred in Burma and south-east Bengal and there was also an extension of rainfall in the south of the Peninsula. The western disturbances caused scattered light showers along the north-west frontier and in Kashmir.

The chief feature of weather during *December* was a large excess of precipitation in Baluchistan caused by the passage of as many as eleven western disturbances.

The total rainfall of the period of the retreating south-west monsoon was in moderate to large excess in Assam, Bengal and Baluchistan, in slight excess in Upper Burma and the Bombay Deccan, normal in Lower Burma, Mysore and south-east Madras, in slight defect in the Bay Islands, Chota Nagpur, Bihar, the south-west Punjab, Kashmir, west Central India, the Central Provinces, the Konkan, north Hyderabad, Malabar, the Madras Deccan and the north Madras coast and in moderate to large defect elsewhere.

On the mean, temperatures remained normal throughout the season. There was more clouding than normal in north-east India, the United Provinces, Central India, the North-West Frontier Province, the Rajputana and Hyderabad. Humidity was in defect in the Punjab and the North-West Frontier Province.

V.—*Year.*—Taking the year as a whole, rainfall was normal in Burma, Bengal, Bihar and Orissa, the United Provinces, Sind, Gujarat, the east Central Provinces, the Konkan, the Bombay Deccan, north Hyderabad and the north Madras coast. It was in slight to moderate excess in the Bay Islands, Assam, Rajputana, Central India, Berar and the west Central Provinces, and in slight to moderate defect in the Punjab, Kashmir, the North-West Frontier Province, Baluchistan, south Hyderabad, Mysore, Malabar, south-east Madras and the Madras Deccan. Averaged over the plains of the country the year's rainfall did not differ from the normal rainfall.

TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS FOR THE YEAR 1934.

	RAINFALL.*				DEPARTURE FROM NORMAL OF				
							8 hrs. L. M. T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
	"	"	"		°	°	"	%	
Division.									
1. Burma	116·56	113·55	+3·01	+3	-0·4	-0·1	-·019	-2	+0·3
2. Assam	103·63	88·65	+14·98	+17	-0·7	+0·6	+·071	+1	+0·7
3. Bengal	71·06	77·71	-6·65	-9	+0·4	+0·3	-·009	-1	+0·6
4. Bihar and Orissa	48·58	52·45	-3·87	-7	+0·4	-0·1	-·019	-3	+0·5
5. United Provinces	42·45	41·56	+0·89	+2	+0·3	-0·4	-·027	-3	+0·3
6. Punjab	19·22	19·33	-0·11	-1	+0·2	-0·4	-·021	-4	0
7. North-West Frontier Province	9·88	11·29	-1·41	-12	+0·7	0	-·047	-5	+0·5
8. Sind	7·62	6·13	+1·49	+24	-0·3	+0·5	-·024	-4	-0·3
9. Rajputana	26·54	20·02	+6·52	+33	-0·4	-1·1	-·034	-4	-0·1
10. Bombay	40·00	37·24	+2·76	+7	+0·1	-0·4	-·024	-3	+0·2
11. Central India	51·98	37·45	+14·53	+39	+0·4	-0·8	-·022	-2	0
12. Central Provinces	55·11	46·80	+11·31	+24	-0·1	-0·1	-·030	-2	+0·3
13. Hyderabad	32·11	33·06	-0·95	-3	-0·4	-0·2	-·043	-3	+0·5
14. Mysore	27·35	31·74	-4·39	-14	+0·8	+0·5	-·006	0	+0·7
15. Madras	40·78	48·45	-7·67	-16	-0·6	+0·1	-·018	-1	+0·5
Mean of India	53·02	51·09	+1·93	+4	-0·1	-0·2	-·023	-2	+0·3
Sub-Division.									
1. Bay Islands	146·55	116·42	+30·13	+26	-1·6	+0·2	-·038	-3	0
2. Lower Burma	158·25	154·29	+3·96	+3	-0·3	-0·2	-·026	-2	+0·6
3. Upper Burma	51·10	50·07	+1·03	+2	-0·4	-0·1	-·011	-2	-0·1
4. Assam	103·63	88·65	+14·98	+17	-0·7	+0·6	+·001	+1	+0·7
5. Bengal	71·06	77·71	-6·65	-9	+0·4	+0·3	-·009	-1	+0·6
6. Orissa	56·15	58·44	-2·29	-4	+0·2	-0·3	-·015	0	+0·6
7. Chota Nagpur	46·12	51·72	-5·60	-11	+0·3	-0·5	-·023	-4	+0·4
8. Bihar	45·21	49·77	-4·56	-9	+0·7	+0·3	-·021	-4	+0·4
9. United Provinces, East	40·78	41·61	-0·83	-2	+0·7	+0·3	-·023	-2	+0·2
10. Do. West	43·92	41·53	+2·39	+6	-0·1	-1·1	-·032	-4	+0·3
11. Punjab, East and North	27·36	27·22	+0·14	+1	+0·4	-0·4	-·026	-5	+0·2
12. Do., Southwest	8·95	9·61	-0·66	-7	0	-0·4	-·014	-2	-0·3
13. Kashmir	26·35	27·45	-1·10	-4	+0·7	+1·9	-·006	0	+0·2
14. North-West Frontier Province	9·88	11·29	-1·41	-12	+0·7	0	-·047	-5	+0·5
15. Baluchistan	7·00	7·92	-0·92	-12	-0·2	+0·6	-·028	-4	+0·4
16. Sind	7·62	6·13	+1·49	+24	-0·3	+0·5	-·024	-4	-0·3
17. Rajputana, West	15·99	12·70	+3·29	+26	-0·1	-0·6	-·046	-5	-0·3
18. Rajputana, East	34·35	25·15	+9·20	+37	-0·7	-1·4	-·023	-3	0
19. Gujarat	25·71	23·26	+2·45	+11	+0·2	-0·3	-·022	-3	+0·5
20. Central India, West	51·11	31·17	+19·94	+64	-0·4	-0·2	-·030	-3	+0·1
21. Do. do., East	52·87	43·75	+9·12	+21	+1·2	+1·5	-·015	-1	0
22. Berar	39·28	32·19	+7·09	+22	-0·8	+0·1	-·051	-3	-0·4
23. Central Provinces, West	63·18	46·77	+16·41	+35	-0·4	-0·2	-·027	-2	+0·3
24. Do. do., East	59·91	54·14	+5·77	+11	+0·6	-0·1	-·034	-3	+0·5
25. Konkan	105·46	96·93	+8·53	+9	+0·1	+0·1	-·006	-1	-0·3
26. Bombay Deccan	28·50	28·69	-0·19	-1	-0·1	-0·7	-·034	-3	-0·1
27. Hyderabad, North	36·73	34·58	+2·15	+6	-0·5	+0·1	-·079	-6	+0·4
28. Do., South	27·59	31·34	-3·75	-12	-0·2	-0·4	-·016	-1	+0·5
29. Mysore	27·35	31·74	-4·39	-14	+0·8	+0·5	-·006	0	+0·7
30. Malabar	94·75	105·46	-10·71	-10	-0·1	+0·3	-·001	-1	+0·5
31. Madras, Southeast	33·24	39·47	-6·23	-16	-0·7	+0·5	-·033	-2	+0·3
32. Do. Deccan	16·85	25·70	-8·85	-34	-1·0	+0·2	+·007	0	+0·4
33. Do. Coast, North	33·37	40·52	-7·15	-18	-0·6	-0·5	-·018	-1	-0·1

* Based on data from Meteorological observatories only as in Monthly Weather Reports. For fuller data see tables XI to XV.

TABLE II.——ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature. °F.		Wet bulb temperature. °F.		Vapour pressure, inches.			Relative humidity %		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bay Islands.																						
Port Blair	59	29·772	−·009	29·704	85·5	−1·0	92	IV, V	77·2	+0·2	71	I, XI, XII	80·1	81·7	76·0	76·0	·841	−·038	·824	82	−2	76
Lower Burma																						
Victoria Point	157	29·704	+·002	29·636	84·7	−1·0	93	IV	74·4	−0·5	66	I, II	78·2	79·8	74·7	74·8	·812	−·018	·804	84	0	79
Mergui	66	29·801	+·004	29·714	86·0	−1·4	96	III, IV	72·4	+0·5	57	XII	77·2	80·5	74·0	75·2	·802	−·029	·804	86	−1	78
Tavoy	19	29·845	−·005	29·760	88·5	+0·6	99	III	71·0	−0·7	50	XII	76·1	80·4	73·1	75·1	·777	−·028	·806	86	−2	78
Amherst	71	29·788	...	29·700	86·4	...	95	IV	73·8	...	54	XII	78·3	80·8	74·0	75·8	·784	...	·825	81	...	79
Rangoon	18	29·822	−·009	29·729	89·7	+0·4	101	III	72·5	−0·5	55	XII	77·4	82·6	73·6	74·9	·788	−·015	·765	83	−4	70
Tharrawaddy*	49																					
Bassein	27	29·822	+·004	29·742	89·0	+0·8	101	III	71·8	−0·8	50	XII	77·5	83·6	73·7	74·5	·791	−·033	·774	83	−5	78
Diamond Island	41	29·788	−·009	29·718	84·7	−0·6	90	V	76·8	+1·1	66	XII	79·7	80·2	75·1	75·2	·809	−·023	·811	80	0	79
Gwa	11	29·821	...	29·746	85·1	...	92	V	70·1	...	50	XII	76·1	80·4	73·C	75·5	·783	...	·818	85	...	79
Sandoway	28	29·805	...	29·724	88·4	...	97	III, IV, V	67·2	...	46	II	75·9	79·4	72·2	74·8	·756	...	·800	84	...	80
Toungoo	158	29·679	−·007	29·569	89·7	−0·2	104	III	70·5	+0·1	49	XII	74·8	82·5	71·5	74·2	·740	−·040	·743	85	−1	69
Kyaukpyu	18	29·801	−·003	29·722	84·3	−0·4	93	V	73·0	+0·2	56	I	77·3	80·2	74·1	74·9	·812	−·010	·800	85	−1	77
Akyab	20	29·803	−·004	29·719	84·8	−1·0	93	III, V	70·8	−0·9	50	I	76·0	79·3	72·4	74·1	·760	−·041	·781	83	−6	77
Upper Burma																						
Minbu	168	29·646	−·018	29·535	91·8	+0·4	109	V	71·0	−0·4	50	I, XII	77·3	85·3	70·7	72·8	·686	−·012	·650	71	−4	55
Yamethin	644	29·179	−·004	29·064	90·1	−1·0	107	V	69·8	0	47	XII	74·7	82·6	70·2	72·9	·695	−·006	·689	79	0	64
Mandalay†	252	29·559	−·021	29·430	91·2	...	109	V	70·9	...	47	XII	75·9	84·7	70·7	73·1	·703	...	·672	77	...	58
Monywa	280	29·558	−·017	29·415	93·3	+1·7	114	V	70·9	−0·3	50	XII	76·2	86·2	70·3	74·0	·680	−·022	·683	75	−2	57
Lashio	2,802	27·049	−·005	26·955	...	...	98	IV	60·5	0	40	XII	66·3	72·6	62·5	65·1	·539	−·020	·535	81	−5	67
Bhamo	416	29·429	−·018	29·317	85·1	−0·8	104	V	65·0	+0·1	43	I, XII	69·8	78·4	67·2	72·0	·657	−·021	·704	87	−2	73
Myitkyina	463	29·345	−·014	29·234	84·5	+0·4	100	V	65·6	+0·1	46	XII	70·3	77·8	67·2	71·2	·653	−·003	·690	85	−2	72
Assam																						
Dibrugarh	348	29·477	−·018	...	81·5	+0·7	97	VII, VIII	65·3	+0·1	45	I	69·4	...	67·3	...	·668	0	...	89	−3	...
Sibsagar	317	29·504	−·012	29·393	82·3	+1·0	97	VIII	65·9	+0·2	44	I	69·8	76·7	68·2	71·6	·701	+·003	·733	93	−1	79
Tezpur	258	29·564	−·018	29·447	83·7	+0·5	96	VII	67·3	+0·3	48	I	71·4	78·1	68·7	71·6	·694	+·014	·706	86	−3	72
Gauhati	196	29·619	−·026	29·504	84·1	−0·4	97	III, IV	67·5	+1·2	45	II	71·3	78·9	68·3	72·1	·695	−·004	·721	88	0	71
Dhubri	115	29·710	+·006	29·599	82·1	−0·7	99	III	68·5	+0·5	48	II	72·7	78·7	69·4	71·8	·694	−·009	·712	84	−3	71
Silchar	96	29·738	−·001	29·621	85·4	−0·7	98	VII, VIII	66·6	−0·9	43	I	71·4	81·3	69·1	74·2	·705	−·019	·766	89	+2	70
Srimangal	69	29·745	−·011	29·635	86·2	−1·6	99	III	66·1	+1·0	39	I	72·0	80·8	69·7	73·8	·723	+·005	·761	88	0	72
Bengal																						
Cox's Bazar	36	29·773	−·005	29·699	84·7	−0·2	94	V	69·7	+0·1	49	I	75·5	78·8	71·5	73·5	·738	−·040	·765	81	−5	77
Chittagong	87	29·728	−·007	29·641	85·5	+0·6	94	V	69·2	−0·1	47	I	74·6	78·7	70·4	72·7	·707	−·048	·731	80	−6	74
Noakhali	22	29·778	−·018	29·685	84·3	−0·3	94	IX	72·0	+0·7	50	I	76·0	80·3	72·7	74·3	·779	+·002	·777	84	−3	74
Comilla	37	29·765	−·015	29·668	87·3	+1·2	101	III	68·9	+0·2	43	I	75·1	80·7	71·6	74·1	·750	−·012	·762	84	−2	72
Narayanganj	26	29·772	−·012	29·677	87·2	+1·0	103	IV	70·6	+0·1	46	I	75·5	81·3	71·7	73·2	·751	−·018	·723	82	−3	67
Mymensingh	62	29·751	−·005	29·646	85·0	+0·2	101	IV	68·7	−0·2	45	I	73·5	80·9	70·4	73·1	·727	−·010	·728	86	−1	69
Faridpur	27	29·764	−·023	29·663	86·6	+1·2	103	IV	69·8	+0·3	42	I	74·7	80·3	71·7	74·2	·766	−·009	·748	86	−1	71
Barisal	12	29·781	−·008	29·691	86·3	+0·5	98	III	70·5	+0·2	44	I	76·3	80·9	72·3	73·6	·763	−·031	·743	82	−3	70
Khulna	16	29·782	−·002	29·683	87·0	+0·6	104	IV	70·7	+1·1	45	I	77·0	80·2	72·8	73·1	·773	+·008	·766	80	0	73
Jessore	26	29·766	−·010	29·667	87·9	...	105	V	67·7	...	36	I	76·0	79·1	72·8	73·1	·786	+·015	·754	85	+1	75
Satkhira	...	29·768	−·036	29·671	88·3	+0·3	106	IV, V	69·6	+0·6	40	II	76·2	82·4	72·5	74·1	·776	−·018	·747	88	−1	67
Calcutta	21	29·759	−·016	29·662	88·1	+1·2	105	IV, V	71·7	+1·0	45	I	75·4	82·6	72·4	74·3	·784	+·016	·759	85	+2	
Saugor Island	10	29·764	−·017	29·675	84·5	−0·9	101	III	73·6	+0·2	47	I	78·4	80·5	74·1	74·9	·805	−·022	·808	80	−5	76
Sandheads	20	29·756	−·025	29·673	...	...	...	...	...	...	...	...	80·2	81·5	75·2	75·7	·818	−·027	·826	78	−2	75
Midnapore	149	29·682	−·008	29·525	89·9	+0·1	111	V	70·7	+0·2	43	I	75·9	84·8	70·6	72·9	·711	−·002	·664	77	+1	57
Burdwan	99	29·679	−·017	29·569	89·7	+0·9	110	V	69·7	−0·7	43	I	74·8	84·2	70·8	73·3	·727	+·011	·690	81	+2	60
Krishnagar	48	29·734	−·016	29·632	89·5	+1·2	108	V	68·3	−0·6	39	I	75·3	82·5	71·3	73·4	·746	+·004	·722	82	0	65
Asansol	414	29·353	−·014	29·239	89·5	+0·4	113	V	68·9	+0·2	42	I	74·7	85·3	68·4	70·3	·654	−·026	·563	71	−4	48
Berhampore	62	29·725	−·011	29·613	88·4	+0·8	109	V	68·5	−1·1	42	I	75·2	82·8	70·7	72·6	·722	−·006	·684	79	−4	61
Bogra	63	29·730	−·013	29·621	86·1	−0·1	103	III, IV	68·3	+0·2	44	I	74·1	80·9	70·4	72·7	·726	+·006	·717	82	−1	63
Malda	108	29·682	+·002	29·579	87·3	+0·3	109	V	68·0	+0·4	40	I	73·9	82·5	69·5	72·1	·690	−·028	·674	79	−2	61
Dinajpur	123	29·668	−·010	29·562	86·2	+0·2	105	V	69·2	+2·3	41	I	72·9	82·1	68·5	72·3	·666	−·028	·683	79	−4	62
Jalpaiguri	271	29·510	−·033	29·403	83·3	−1·0	97	IV	66·3	+0·1	44	I, II	71·4	78·	68·5	72·2	·686	+·001	·728	86	0	73

Data not available for complete year hence no annual mean

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1934.

Cloud amount (tenths of sky.)			Rainfall, inches.				Number of rainy days (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											8 hrs. L. M. T.									17 hrs. I. S. T.								
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bay Islands
5·9	0	6·5	146·55	+30·13	6·82	VIII	135	−3·6	5·5	−0·1	31	35	35	5	16	52	63	47	81	34	35	42	20	19	57	68	27	63	Port Blair.
																													Lower Burma
7·5	+1·3	8·5	168·07	+1·61	4·46	VIII	162	+5·3	4·4	−1·1	7	132	54	54	18	38	18	13	31	4	50	62	17	13	62	45	63	49	Victoria Point.
8·6	−0·9	4·1	145·56	−15·68	4·08	VII	156	+2·2	...	...	1	94	30	68	94	14	0	14	0	0	72	19	31	82	46	0	115	0	Mergui.
6·7	+2·5	6·8	200·83	−13·91	9·14	VII	154	+9·6	2·1	+0·9	6	17	5	5	10	9	1	1	311	9	6	4	6	26	24	8	19	268	Tavoy.
6·7	...	5·0	206·57	+16·73	6·34	VIII	140	+2·0	7·2	...	14	33	79	43	85	28	18	18	47	27	9	13	3	84	83	92	41	13	Amherst.
5·7	−0·2	6·0	101·27	+2·24	14·22	IV	117	−5·3	3·3	+0·2	53	63	19	22	54	54	39	23	33	28	20	7	60	109	63	35	14	29	Rangoon.
																													Tharrawaddy.*
7·5	+2·8	9·3	98·82	−10·31	4·60	X	119	−5·8	...	...	37	25	13	18	48	42	50	56	76	6	2	3	5	12	50	82	74	131	Bassein.
4·1	−1·1	3·9	209·50	+91·16	13·75	VIII	110	−3·8	...	...	29	77	7	14	32	66	65	68	7	15	15	15	15	23	87	76	107	12	Diamond Island.
4·4	...	4·7	173·86	+2·30	7·60	VIII	119	+0·3	4·1	...	22	15	0	54	48	9	13	21	183	75	4	0	13	29	29	18	110	87	Gwa.
5·6	...	6·2	200·04	...	8·84	VI	122	...	1·6	...	3	62	107	16	28	22	7	1	119	1	4	12	6	22	82	40	10	188	Sandoway.
5·8	+0·3	5·5	83·12	+0·16	2·50	VII	112	−2·7	3·4	+1·0	40	13	26	107	82	9	15	42	31	12	7	26	95	73	11	18	25	98	Toungoo.
5·3	−0·1	5·0	184·13	−3·66	9·26	X	125	−4·1	3·1	+0·9	7	87	10	107	21	28	8	13	84	4	6	0	25	26	77	84	65	78	Kyaukpyu.
5·7	+0·7	4·9	168·82	−34·55	8·52	X	123	−2·5	6·9	...	38	136	46	39	39	25	10	8	24	2	3	4	21	71	70	104	67	23	Akyab.
																													Upper Burma
3·0	−1·1	3·2	30·56	−4·82	1·78	VII	60	+2·8	...	...	10	2	1	142	45	1	6	82	76	6	1	1	33	32	10	94	29	157	Minbu.
4·3	+0·4	4·2	45·51	+7·49	4·91	IX	66	+2·7	4·1	...	45	1	1	16	227	5	0	15	55	9	1	1	8	184	15	3	4	140	Yamethin.
4·9	+1·1	4·6	26·12	−7·04	2·56	XI	40	−10·8	3·4	...	9	4	11	69	145	29	3	10	85	32	23	16	54	66	13	2	8	151	Mandalay.†
3·8	−1·3	3·5	33·39	+2·34	4·26	IX	37	−7·1	2·8	+0·6	94	9	14	122	20	1	2	48	55	25	5	6	65	13	8	2	11	230	Monywa.
5·3	−0·8	5·0	53·13	−8·74	3·91	VII	95	−5·7	2·5	+0·3	26	22	16	12	29	31	10	9	210	14	7	4	10	60	119	43	39	69	Lashio.
6·5	+0·9	4·5	69·97	−2·04	4·71	VI	95	−5·5	2·3	+0·8	80	67	12	11	21	6	15	31	122	31	88	10	15	23	4	21	12	111	Bhamo.
6·1	+0·3	4·7	99·02	+20·03	5·55	VII	106	+0·5	2·6	+0·8	83	94	24	37	37	10	8	15	57	42	42	13	23	36	22	10	15	162	Myitkyina.
																													Assam
7·1	+1·4	...	108·48	+0·06	4·71	IV	139	+4·5	1·4	+0·7	19	67	84	9	16	5	2	15	148	...	...	...	...	...	...	...	...	...	Dibrugarh.
8·2	+0·9	5·8	112·56	+16·67	3·27	VII	143	+14·5	...	...	36	108	50	15	29	34	5	19	69	62	84	31	8	16	27	7	31	99	Sibsagar.
5·6	+0·6	4·0	82·08	+7·84	3·29	IV	110	+4·9	1·9	−0·4	7	95	128	12	7	16	23	6	81	9	27	59	17	0	11	26	17	199	Tezpur.
5·5	−0·7	4·7	81·97	+16·68	4·59	VI	103	+10·2	2·1	+0·3	54	59	43	54	28	9	17	37	64	16	35	39	21	13	11	31	46	153	Gauhati.
4·5	−0·1	4·3	80·48	−16·02	4·32	VII	96	+1·7	2·8	−1·2	28	134	55	12	26	27	2	3	78	23	70	20	16	34	40	17	7	138	Dhubri.
6·2	+1·1	5·8	174·13	+49·45	6·50	IV	155	+18·9	1·4	−0·1	8	47	68	18	3	3	0	3	215	10	17	15	6	6	29	35	28	219	Silchar.
5·8	+2·2	5·3	128·68	+30·15	8·12	X	136	+12·3	...	...	13	52	43	116	38	10	9	19	65	12	28	13	44	49	64	42	19	94	Srimangal.
																													Bengal
5·6	+1·4	5·4	143·33	+2·69	15·68	X	101	−6·0	3·5	+0·6	6	14	40	80	70	16	0	4	135	13	2	5	41	97	48	11	20	128	Cox's Bazar.
5·0	+0·3	4·8	116·99	+14·26	8·75	VII	106	+11·0	6·0	...	35	65	58	113	81	6	1	6	0	34	8	4	19	86	110	46	57	1	Chittagong.
5·1	+1·3	4·9	120·01	−0·90	7·25	VI	109	−4·0	...	...	37	30	19	90	69	23	3	14	80	11	3	8	55	128	42	19	18	81	Noakhali.
5·2	+1·3	6·2	102·89	+12·58	7·43	VI	117	+16·8	3·5	...	24	29	47	104	73	14	7	12	55	9	14	5	79	86	25	13	13	121	Comilla.
5·5	+0·3	4·6	80·40	+6·58	7·29	VI	103	+9·7	4·0	+0·8	23	27	38	77	75	37	17	54	17	16	10	15	72	99	19	28	40	57	Narayanganj.
5·4	+0·2	4·2	95·03	+2·08	5·21	VI	112	+6·6	2·5	+0·9	4	23	48	126	5	7	0	15	137	0	12	28	101	0	5	12	9	200	Mymensingh.
5·6	+1·3	4·8	71·45	−0·27	4·05	X	91	−2·3	...	...	18	21	20	121	74	7	7	27	70	7	9	1	103	61	5	12	19	138	Faridpur.
4·9	+0·3	4·1	80·63	−1·68	5·06	X	104	+0·8	3·9	+2·0	41	25	34	62	63	48	11	36	45	23	7	17	65	86	41	12	26	88	Barisal.
6·0	+1·3	5·2	66·67	+0·61	3·10	VI	88	−9·0	3·3	...	24	25	36	55	55	50	17	27	76	11	4	20	72	68	27	6	7	150	Khulna.
4·3	−0·2	3·8	51·22	−14·81	4·37	VI	84	−4·0	3·5	+1·5	12	26	14	52	98	39	11	22	91	2	8	3	55	93	11	2	9	182	Jessore.
5·0	+1·5	4·5	57·73	−4·76	3·08	VI	87	−8·5	2·7	...	47	31	38	29	70	60	25	22	43	13	12	31	31	88	36	9	12	133	Satkhira.
4·9	+0·4	4·6	54·39	−8·15	3·01	VI	87	+1·8	3·1	−0·1	23	19	30	37	52	84	17	33	70	29	7	16	35	82	66	14	39	77	Calcutta.
6·0	+0·7	5·5	54·70	−14·71	4·02	IX	76	−3·6	10·3	+1·7	59	56	23	14	39	81	24	16	3	48	23	8	27	183	55	8	12	1	Saugor Island.
4·0	−0·6	3·8	25·79	−15·10	3·60	VIII	47	−8·7	...	...	56	32	11	18	56	125	31	23	13	44	18	13	19	85	126	17	18	25	Sandheads.
4·5	+1·4	4·8	40·80	−18·25	2·68	VII	69	−11·3	2·0	−0·4	44	28	24	24	90	26	5	15	109	28	12	15	47	93	17	1	12	140	Midnapore.
4·1	−0·6	3·8	50·49	−8·14	3·03	VI	71	−5·9	2·3	...	31	4	11	95	40	24	14	68	78	20	2	7	98	40	6	5	44	145	Burdwan.
5·4	+1·2	5·0	41·10	−17·30	1·99	X	80	+1·8	3·1	...	10	21	31	41	68	42	18	20	114	6	8	19	50	53	14	12	8	195	Krishnagar.
4·3	+0·3	4·5	44·46	−13·48	2·90	VII	74	−0·7	3·9	...	19	15	43	42	20	38	76	56	56	41	19	47	46	14	17	52	75	54	Asansol.
4·4	−0·3	3·7	30·51	−26·60	1·89	VII	62	−15·2	2·9	+0·6	14	11	64	54	58	39	22	33	70	11	7	53	44	52	12	13	19	154	Berhampore.
4·9	+0·8	4·3	65·08	−5·89	3·85	IV	89	+3·7	2·2	+0·6	20	29	100	77	23	34	26	16	40	1	10	61	60	21	34	53	8	117	Bogra.
4·2	+1·2	3·5	48·00	−8·10	3·82	VI	66	−2·9	...	...	33	25	68	44	60	31	21	36	47	25	12	69	42	28	6	24	63	96	Malda.
3·5	−0·7	3·5	58·82	−12·28	4·72	X	69	−10·5	2·2	−0·2	2	88	77	33	18	24	24	16	83	3	42	51	26	18	15	27	13	170	Dinajpur.
3·7	+0·4	3·3	147·80	+25·48	3·14	VII	119	+15·8	2·9	+1·5	48	103	103	16	4	4	6	13	68	21	51	67	29	9	10	14	6	158	Jalpaiguri.

† "Site changed on 29-6-34—Old normals of temperatures, Vapourtension, Humidity and wind Velocity not applicable."

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity %.		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. L. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. L. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. L. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. L. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. L. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Orissa																						
Balasore	64	29·714	—·015	29·614	88·5	−0·1	108	V	71·0	+0·5	45	I	76·5	81·1	71·9	74·7	·742	—·003	·790	79	−2	73
Chandbali	20	29·766	—·016	29·670	88·9	+0·2	111	V	71·3	—0·2	47	I	76·6	82·5	72·3	74·3	·767	...	·755	83	+2	67
Puri	20	29·768	—·007	29·677	84·9	—1·4	95	VII	74·8	+0·2	54	I	78·0	81·3	73·9	75·7	·769	—·022	·826	81	−2	76
Cuttack	87	29·701	—·009	29·599	91·8	+0·9	116	V	71·4	—1·1	48	I	76·1	84·9	71·9	73·9	·750	0	·705	80	+1	63
Angul	455	29·322	—·013	29·210	90·5	+0·6	115	V	69·4	—0·1	45	I	74·3	86·6	69·9	70·7	·667	—·026	·548	76	0	47
Sambalpur	486	29·294	—·017	29·178	91·5	+1·0	116	V	68·3	—1·5	42	I	75·4	87·6	68·6	71·5	·629	—·025	·569	71	0	47
Chota Nagpur																						
Jamshedpur	423	29·337	...	...	90·9	...	115	V	68·1	...	39	I	74·3	...	68·3	...	·644	...	...	73	...	...
Chaibasa	742	29·027	—·007	28·913	90·2	+0·3	114	V	68·1	—0·2	40	I	74·7	85·8	68·3	71·4	·630	—·015	·589	72	—4	51
Ranchi	2,152	27·624	—·011	27·538	84·7	+0·5	107	V	64·3	—1·2	39	I	72·3	79·4	63·5	64·7	·489	—·040	·448	61	—5	47
Hazaribagh	2,006	27·767	—·005	27·688	85·1	+0·5	109	V	64·5	—1·2	38	I	72·4	78·9	63·9	65·5	·519	+·007	·480	63	0	50
Daltonganj	725	29·042	—·015	28·927	89·4	—0·1	113	V	65·9	+0·6	38	I	72·6	85·9	64·8	68·3	·542	—·045	·478	67	—6	42
Bihar																						
Purnea	124	29·655	—·025	29·545	87·6	+1·1	107	V	65·9	—0·4	36	I	72·9	81·7	68·2	71·7	·664	—·026	·747	79	—6	62
Darbhanga	162	...	...	...	86·8	+0·8	106	V	66·8	—1·0	40	I	75·6	82·5	69·4	71·9	·661	—·021	·663	72	—8	60
Pusa	165	29·615	—·004	...	87·6	—0·3	109	V	67·5	+0·4	41	I	73·2	..	68·8	...	·685	+·008	...	80	0	...
Motihari	221	29·563	—·009	29·458	86·5	0	106	V	66·5	+1·5	42	I	72·9	82·6	68·1	71·5	·655	—·022	·652	78	—5	59
Patna	173	29·599	—·009	29·492	88·8	+1·0	110	V	69·1	+0·5	41	I	75·1	84·5	68·3	71·2	·637	—·019	·607	71	—1	52
Gaya	372	29·397	—·016	29·292	91·3	+1·6	113	V	70·1	+1·2	43	I	77·5	86·8	67·4	70·2	·565	—·070	·537	59	—11	45
Naya Dumka	489	29·281	—·017	29·176	88·1	+0·4	110	V	67·4	—0·4	41	I	74·1	81·7	68·4	69·9	·650	+·002	·609	74	+1	56
Sabour	122	29·655	...	29·547	87·7	...	109	V	66·2	...	33	I	73·7	82·7	68·5	71·5	·687	...	·640	77	...	59
United Provinces, East																						
Gorakhpur	257	29·516	—·010	29·415	88·5	+0·8	111	V	67·1	+0·4	38	I	72·9	83·7	67·3	71·5	·629	—·011	·625	75	0	57
Benares	250	29·513	—·021	29·416	90·5	+1·0	114	V	67·6	+1·0	39	I	75·3	80·4	66·3	69·3	·559	—·062	·512	63	—8	43
Allahabad	309	29·456	—·018	29·352	90·6	+0·5	116	V	67·4	+0·6	39	I	74·6	87·3	65·2	69·1	·537	—·039	·488	61	—4	41
Fatehpur	375	29·402	...	29·293	90·5	...	115	V, VI	66·0	...	36	I	76·1	85·9	67·3	71·3	·589	...	·610	63	...	50
Cawnpore	416	29·345	—·019	29·252	90·7	+0·8	115	V	65·3	—1·1	37	I	73·0	87·5	65·0	69·9	·552	—·017	·519	67	+1	43
Lucknow	371	29·399	—·011	29·281	90·6	+0·9	115	V	66·2	+0·6	39	I	73·2	85·8	65·9	70·0	·584	+·002	·547	69	+1	47
Bahraich	407	29·351	—·016	29·254	88·3	+0·2	111	V, VI	65·9	+0·2	37	I,II	72·3	84·3	66·8	71·4	·625	+·007	·632	76	+3	55
Gonda	360	29·412	...	29·309	88·6	...	111	V, VI	61·0	...	38	I,II	72·2	84·1	65·9	69·9	·588	...	·567	72	...	51
United Provinces, West																						
Jhansi	824	28·965	—·008	28·865	90·4	—0·8	116	VI	66·1	—2·9	37	I	75·6	86·6	63·9	67·5	·473	—·056	·441	52	—6	37
Agra	554	29·212	—·019	29·119	88·9	—2·2	114	VI	62·6	—1·2	30	I	72·7	86·5	62·7	66·9	·475	—·028	·421	56	—3	34
Mainpuri	516	29·246	—·014	29·150	91·1	+1·0	115	V, VI	64·7	—0·9	34	I	73·9	86·5	64·4	69·2	·516	—·028	·50	59	—6	41
Aligarh	615	29·154	...	29·062	88·9	...	114	VI	65·2	...	37	I, II	73·2	85·4	63·3	68·0	·490	...	·482	57	...	40
Bareilly	568	29·212	+·009	29·119	...	...	112	V	65·4	+0·7	35	II	72·0	85·1	65·2	70·3	·572	—·012	·564	70	—3	47
Roorkee	899	28·874	—·001	28·778	86·3	—0·1	112	V, VI	61·5	—0·7	35	I	69·4	83·0	61·9	66·2	·495	—·024	·457	66	—5	41
Dehra Dun	2,239	27·539	—·010	...	82·2	+1·0	105	V	59·6	—1·1	33	I	63·9	...	57·7	...	·435	—·037	...	68	—2	...
Punjab, East and North																						
Delhi	719	29·049	—·009	28·959	88·2	...	113	VI	64·5	...	36	I	70·9	85·9	62·9	68·6	·510	...	·499	63	...	39
Hansi	711	29·058	...	...	91·5	...	117	VI	61·8	...	31	I	70·7	...	62·8	...	·514	...	...	64	..	...
Hissar	725	29·046	—·005	28·951	90·6	—0·3	116	VI	62·5	—1·2	30	I	72·1	86·2	62·3	67·7	·481	+·007	·456	56	—3	35
Ambala	892	28·864	—·012	28·781	89·2	+1·3	114	VI	63·3	+0·6	35	I	69·9	84·4	61·1	65·6	·464	—·061	·416	60	—10	35
Ludhiana	812	28·959	0	28·877	89·4	+1·6	116	VI	61·8	—2·2	32	I	70·7	85·7	61·5	66·1	·470	—·029	·409	59	—6	33
Lahore	702	29·063	—·004	28·990	88·9	—0·7	117	VI	61·8	+1·2	30	I	70·2	85·9	61·9	67·1	·494	+·006	·448	63	+1	35
Sialkot	830	28·941	—·001	28·859	86·7	—0·4	115	VI	61·5	—0·9	28	I	68·9	82·5	61·3	66·9	·492	—·023	·487	66	—4	43
Rawalpindi	1,674	28·113	—·001	28·037	84·6	+0·5	115	VI	58·0	+0·3	26	I	67·1	81·5	57·2	62·1	·389	—·059	·352	56	—9	32

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1934.

Cloud amount (tenths of sky)			Rainfall, inches.				Number of rainy days (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											8 hrs, L. M. T.									17 hrs. I. S. T.								
Mean 8 hrs, L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Orissa
5·4	+1·8	5·9	46·87	—15·86	3·03	VIII	79	+1·0	4·8	+1·9	74	45	12	12	71	81	14	48	8	10	16	12	123	113	27	5	7	52	Balasore.
4·4	...	3·9	76·35	+15·37	7·42	VII	82	+10·4	6·2	...	62	5	8	12	90	68	57	56	7	17	25	50	105	109	24	23	7	5	Chandbali.
4·6	+0·5	4·3	51·53	—3·03	8·30	IX	57	—4·7	12·0	+3·6	103	34	1	3	71	91	32	12	18	16	14	31	50	139	91	12	5	7	Puri.
4·7	+0·2	5·0	61·28	+1·96	8·78	VIII	74	—0·9	2·9	+0·9	15	15	9	10	19	88	77	17	115	4	7	11	20	66	83	36	10	128	Cuttack.
4·5	+0·4	5·1	40·21	—7·02	2·64	VII	56	—16·3	3·5	—0·6	26	27	32	7	15	22	115	91	10	50	36	37	45	27	27	74	66	3	Angul.
4·1	0	4·6	61·48	—4·25	10·47	VIII	72	—1·9	2·9	0	42	64	12	21	34	80	21	10	61	20	26	11	8	19	81	93	50	87	Sambalpur.
																													Chota Nagpur
4·0	...	...	48·94	...	4·36	VII	65	...	2·5	...	5	6	31	18	4	22	58	35	186	...	...	...	...	...	...	...	...	...	Jamshedpur.
4·9	+1·2	5·6	38·24	—13·55	4·87	VIII	62	—12·4	2·3	+0·7	4	31	14	5	25	131	51	10	94	10	29	32	18	15	77	47	28	109	Chaibasa.
4·2	+0·3	4·5	50·93	—6·28	3·18	IX	73	—7·2	2·6	—2·0	27	7	10	14	44	40	16	49	158	51	15	19	21	29	16	26	89	99	Ranchi.
3·9	—0·4	4·3	45·59	—7·69	4·83	VII	60	—15·2	6·1	+0·8	16	16	27	41	54	67	61	75	8	55	20	29	35	28	11	28	168	6	Hazaribagh.
3·4	+0·6	4·2	49·67	+5·02	5·66	VIII	57	—4·5	3·4	+0·7	14	13	98	9	12	19	38	10	152	68	12	39	8	11	18	120	59	30	Daltonganj.
																													Bihar
3·9	+0·2	2·8	45·71	—16·57	4·03	VII	78	+7·2	2·1	0	9	57	115	19	8	32	40	7	78	1	41	75	14	3	16	53	11	151	Purnea.
3·8	+0·6	3·9	41·81	—8·46	3·22	VII	61	+2·0	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Darbhanga.
3·9	+0·4	...	43·36	—3·78	2·92	VII	55	—2·1	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Pusa.
3·8	+1·0	3·2	47·66	—7·20	7·35	VII	58	—0·9	..	...	35	42	142	3	7	10	60	7	59	22	15	84	5	6	14	67	10	142	Motihari.
4·1	+0·5	3·4	36·01	—12·52	2·77	VIII	54	—2·0	4·2	+1·1	9	37	113	34	15	67	54	19	17	22	63	78	15	6	14	49	71	47	Patna.
2·9	—0·3	3·0	53·49	+6·01	5·04	VII	57	—1·0	3·2	+0·6	14	43	31	82	49	107	22	15	2	57	65	28	18	7	63	42	70	15	Gaya.
3·6	+0·4	3·7	53·72	—3·37	2·47	VII	83	+5·1	2·5	+0·8	7	21	28	56	24	28	6	48	147	6	27	26	46	21	17	13	63	146	Nayа Dumka.
4·5	...	4·0	41·22	—6·72	5·71	VII	40	—21·0	...	...	9	44	74	57	45	56	26	9	45	40	50	51	42	9	4	41	81	47	Satoor.
																													United Provinces, East
3·6	+1·0	3·7	56·96	+6·77	5·37	VII	70	+13·4	3·2	...	1	23	146	17	1	8	58	15	96	0	14	55	6	0	5	64	29	192	Gorakhpur.
3·5	+0·2	3·6	40·40	—0·15	3·96	VIII	47	—5·7	5·5	+3·0	8	52	41	32	21	94	77	20	20	38	59	18	17	3	29	90	99	14	Benares.
3·8	+0·2	3·7	28·66	—10·40	3·13	IX	46	—3·0	6·2	+3·0	12	25	66	26	14	46	117	23	36	30	51	40	4	5	9	106	90	30	Allahabad.
3·1	...	3·1	40·59	...	6·54	VII	48	...	2·6	...	7	27	36	30	8	42	61	69	85	12	21	18	8	2	13	23	108	160	Fatehpur.
1·8	—0·4	1·9	31·80	—4·12	3·92	VII	50	+5·5	2·9	+0·5	23	26	42	32	18	36	104	35	49	51	32	24	15	11	16	100	77	39	Cawnpore.
3·0	—0·1	2·9	42·21	+3·64	3·61	IX	48	—0·3	2·5	+0·6	9	9	69	7	9	22	82	35	123	6	17	39	10	0	34	63	65	131	Lucknow.
2·6	+0·2	2·5	44·60	—0·70	4·65	IX	54	+4·3	3·0	+0·9	13	2	157	4	10	7	38	13	76	9	1	65	0	4	5	113	14	154	Bahraich.
3·3	...	3·2	53·82	...	5·42	IX	58	...	3·4	...	14	19	109	38	9	4	68	61	43	13	11	55	22	9	9	85	78	83	Gonda.
																													United Provinces, West
3·1	+0·8	3·4	50·95	+14·78	6·47	IX	56	+9·4	4·0	+1·0	10	23	12	5	8	72	58	54	123	15	37	18	8	1	39	43	78	126	Jhansi.
2·8	+0·1	3·3	20·12	—6·78	2·03	VI	37	—1·0	4·1	+0·8	13	19	33	25	18	65	124	45	23	37	18	25	18	7	34	83	132	11	Agra.
3·2	+0·3	3·5	27·04	—0·03	2·08	IX	41	+2·4	2·8	+1·2	14	14	38	35	15	16	92	86	55	17	11	21	16	8	5	102	90	95	Mainpuri.
2·5	...	2·8	31·24	...	2·20	VIII	47	...	4·2	...	40	21	47	35	19	12	84	73	34	61	23	43	13	8	13	41	126	37	Aligarh.
2·9	—0·2	2·7	35·22	—8·45	4·04	VII	44	—2·3	3·0	+1·2	18	15	92	30	4	32	67	43	64	14	13	36	25	4	26	110	60	77	Bareilly.
3·5	+0·7	3·2	36·12	—5·86	4·31	VII	48	+0·3	3·3	+1·4	5	14	8	131	1	3	3	89	111	1	7	4	74	4	15	0	187	72	Roorkee.
4·1	+0·2	...	105·06	+21·90	4·91	V	88	+7·7	1·4	+0·3	39	60	3	8	7	9	15	20	204	...	...	...	...	...	...	...	...	...	Dehra Dun.
																													Punjab East and North
3·3	+0·4	3·4	30·19	+3·35	5·14	VII	35	—1·0	3·4	+0·7	13	8	31	31	9	70	86	44	73	24	15	32	22	10	19	88	96	59	Delhi.
1·5	...	...	18·70	...	2·05	VIII	30	...	1·3	...	16	20	15	21	7	18	40	19	209	...	...	...	...	...	...	...	...	...	Hansi.
1·9	—0·3	2·5	15·93	—1·74	2·35	VII	28	+2·2	4·0	—0·2	32	6	48	31	24	65	64	28	67	64	17	39	13	5	32	71	75	49	Hissar.
3·5	+0·6	3·2	42·09	+11·60	5·95	VIII	35	—7·4	3·5	+1·1	44	3	67	77	1	2	48	61	62	33	3	26	35	0	5	89	138	36	Ambala.
3·2	+0·5	3·0	21·15	—7·56	3·78	VII	32	—4·3	2·7	+1·4	14	20	29	41	42	14	46	49	110	32	27	9	20	14	11	66	113	73	Ludhiana.
2·9	+0·3	3·4	11·57	—8·05	1·82	VII	20	—8·1	1·5	—0·2	22	17	13	35	10	10	12	38	208	16	14	11	15	9	9	25	63	203	Lahore.
2·5	+0·1	2·5	33·97	+2·95	2·98	IX	41	+0·5	...	...	31	53	47	52	17	8	12	51	94	12	21	11	16	13	27	19	52	194	Sialkot.
2·9	—0·3	3·5	39·14	+4·37	3·20	VI	44	—4·2	3·3	+1·6	25	25		13	9	9	4	17	257	7	20	3	32	24	67	35	95	81	Rawalpindi.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of barometer cistern above mean sea level in feet	Pressure reduced to 32°F and standard gravity, inches. Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Maximum temperature °F. Mean.	Departure from normal.	Highest during the year.	Month.	Minimum temperature °F. Mean.	Departure from normal.	Lowest, during the year.	Month.	Dry bulb temperature °F. Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Wet bulb temperature °F. Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Vapour pressure, inches. Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Relative humidity, %. Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Punjab, Southwest																						
Khushab	612	29·157	—·014	29·036	89·1	—0·4	118	VI	62·7	—1·0	28	I	68·1	87·4	58·5	66·1	·417	—·038	·884	55	0	29
Lyallpur	605	29·161	0	...	89·1	+0·5	118	VI	62·2	+0·1	30	I	71·0	...	60·9	...	·446	—·038	...	55	—8	...
Montgomery	558	29·202	—·011	29·124	89·6	—1·5	117	VI	63·6	—0·6	30	I	69·6	87·7	62·2	70·5	·507	+·022	·536	66	+7	41
Multan	425	29·341	—·005	29·253	92·8	+1·1	121	VI	...	...	32	I	73·4	89·7	63·7	71·0	·522	+·003	·556	56	—4	37
Bahawalpur	384	29·291	...	...	91·8	...	116	VI	63·5	...	27	I	73·2	...	63·5	...	·520	...	...	57	...	...
Khanpur	287	29·403	...	29·391	93·	...	118	VI	63·4	...	24	I	71·3	92·1	61·2	68·0	·465	...	·392	55	...	25
Kashmir																						
Srinagar	5,204	*24·911	+·056	*24·824	70·9	+3·2	99	VI, VII	43·8	+0·1	18	XI	50·9	66·6	47·2	53·9	·320	—·023	·310	79	—8	48
Gulmarg	8,669	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Muzaffarabad	2,343	27·434	— 014	...	81·3	+1·5	110	VI	...	...	...	...	60·3	...	54·2	...	·382	— 020	...	66	—2	...
Dras	10,059	20·769	—·002	...	49·1	—0·3	82	VII	25·1	+4·1	—31	I, II	33·8	...	29·5	...	·167	—·002	...	75	—1	...
Leh	11,503	19·667	—·006	...	56·1	+0·7	82	VII, IX	30·6	+1·0	—4	I	38·3	...	31·5	...	·140	+·008	...	57	+6	...
Skardu	7,505	..	...	...	63·3	+0·7	100	VII	41·8	+1·3	0	II	48·3	...	41·6	...	·224	+·006	...	63	—3	...
Gilgit	4,890	...	...	...	70·5	—2·5	104	VII	52·5	+0·2	24	I	56·2	...	49·1	...	·302	+·023	...	61	+9	...
N.-W. F Province																						
Peshawar	1,164	28·626	—017	28·535	85·5	+0·8	114	VI	60·8	+0·5	26	I	69·3	82·4	58·0	65·4	·421	—·033	·413	55	+3	36
Miranshah	3,040	26·533	...	...	80·6	...	110	VI	58·1	...	27	I	66·8	...	54·0	...	·312	...	...	43	...	...
D. I. Khan	570	29·209	+·007	29·114	90·3	+0·6	120	VI	62·3	—0·3	27	I	71·5	87·5	61·2	68·5	·480	—·062	·479	53	—12	35
†Baluchistan																						
Fort Sandeman	4,614	25·341	—·004	25·269	79·0	—1·5	105	VI	53·7	+0·3	19	I	57·9	76·3	48·2	57·2	·271	—·022	·296	47	—7	27
Sibi	441	29·326	...	...	93·7	...	121	VI	66·6	...	26	I	76·3	...	61·1	...	·391	...	...	37	...	...
Quetta	5,405	24·940	—·019	24·582	74·5	+1·1	102	VI	45·6	—1·5	6	I	...	71·9	...	50·2	...	...	·135	...	...	18
Chaman	4,311	25·627	+·012	25·577	77·3	—0·4	107	VI	55·3	+0·8	17	I	61·2	70·1	47·5	54·0	·196	—·044	·180	37	—8	23
Kalat	6,495	23·692	+·003	...	71·1	—1·8	93	VI	40·5	+3·3	4	I	47·9	...	41·2	...	·222	—·013	...	59	—7	...
Dalbandin	2,780	27·041	+·001	26·964	86·7	—0·9	115	VI	53·7	—0·9	10	I	60·8	85·4	47·9	59·5	·200	—·036	·205	40	—4	19
Nokkundi	2,282	27·503	...	27·419	89·2	...	117	VI, VII	60·6	...	14	I	67·1	88 0	58·7	73 5	·459	...	720	60	...	48
Las Bela	292	29·536	...	29·405	95·0	...	118	VI	63·3	...	27	I	75·6	92·6	66·6	72·1	·575	...	536	60	...	34
Sind																						
Jacobabad	186	29·577	—·012	29·469	94·1	—1·6	123	VI	64·9	—0·8	32	I, II	74·5	92·9	63·2	69·1	·479	—·061	·419	51	—7	26
Sukkur	221	29·562	...	...	92·0	...	115	VI	66·7	...	30	I	72·3	...	63·8	...	·525	...	...	61	...	...
Chhor	19	29·788	...	29·675	96·3	...	115	V	63·0	...	29	I	74·6	92·3	67·1	74·8	·616	...	·650	65	...	41
Hyderabad	96	29·708	+·013	29·616	93·8	+0·5	116	V	68·5	+0·3	35	I	75·5	91·4	65·3	69·4	·528	—·017	·454	55	—5	29
Manora (Karachi)	13	29·800	—·007	29·720	84·1	—0·1	94	V	71·8	+0·4	45	I	75·5	82·4	69·9	73·9	·692	+·007	·744	73	—1	65
Badin	36	29·769	..	...	...	...	112	V	67·3	...	32	I	74·8	...	67·1	...	·603	...	...	64	...	...
Naushahro	140	29·640	...	...	...	...	122	VI	63·6	...	28	I	73·8	...	64·6	...	·534	...	...	60	...	...
Rajputana, West																						
Bikaner	762	29·026	+·019	28·925	...	...	117	VI	67·7	—1·2	34	I	73·4	89·7	60·3	65·7	·399	—·093	·342	43	—10	23
Jodhpur	780	29·017	—·001	28·911	92·6	+0·2	115	VI	67·7	—0·1	35	I	73·8	91·1	63·3	67·5	·448	+·004	·380	49	+1	26
Barmer	631	29·148	...	29·047	92·9	...	114	VI	67·9	...	32	I	74·6	91·1	65·9	72·6	·501	...	·576	61	...	38
Rajputana, East																						
Jaipur	1,431	28·362	—·010	28·273	89·5	—0·6	114	VI	63·3	—1·1	31	I	74·4	85·6	62·3	65·5	·444	—·029	·401	50	—3	33
Ajmer	1,911	28·198	—·002	28·111	87·5	—1·0	110	VI	63·4	—1·8	29	I	71·6	84·5	60·9	65·9	·434	—·059	·397	53	—9	33
Kotah	843	28·954	—·007	28·845	91·5	—0·6	115	VI	68·5	—1·5	40	I	77·3	88·7	65·1	68·9	·485	+·010	·461	51	+1	36
Jhalrapatan	1,053	28·745	...	28·643	88·3	...	113	VI	64·4	...	33	I	73·1	86·6	64·7	69·5	·531	...	·516	68	...	42

* Aneroid.
† Stations in Baluchistan excluding Sibi and Las Bela record observations at 7 hrs. (L. M. T.)

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1934.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days, (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																	STATION.
											8 hrs. L. M. T.									17 hrs. I. S. T.									
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month	Total in year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Punjab, South west
2·4	+0·1	3·1	20·81	+5·92	4·70	VII	22	—1·9	4·7	+0·8	31	107	66	13	29	28	23	11	57	20	53	59	91	62	34	28	13	5	Khushab.
2·6	—0·9	...	11·47	—1·71	3·75	VII	19	—2·5	2·4	+0·3	24	40	35	40	24	63	6	35	100	...	...	...	...	...	...	...	...	...	Lyallpur.
1·0	—1·1	1·5	5·33	—5·23	1·11	VIII	12	—6·1	2·5	—1·8	13	19	19	40	16	15	22	26	195	16	22	21	20	6	12	38	35	195	Montgomery.
2·1	+0·4	2·4	6·66	—0·54	2·46	VII	10	—2·8	2·8	+1·4	76	37	9	28	106	21	9	30	49	55	35	14	25	102	36	11	25	62	Multan.
1·5	...	...	3·03	—2·82	1·00	VIII	8	—1·3	3·0	...	25	59	31	24	35	88	32	8	63	...	...	...	...	...	...	...	...	...	Bahawalpur.
1·3	...	1·5	5·37	—1·28	1·78	VIII	8	—1·3	...	...	65	39	32	3	25	140	12	5	44	52	34	19	6	19	94	65	34	42	Khanpur.
																													Kashmir
4·7	+0·1	5·0	15·69	—10·18	0·92	I	48	—10·6	2·3	—0·1	24	12	27	57	34	18	17	18	158	27	23	6	15	12	18	48	67	148	Srinagar.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Gulmarg.
3·3	0	...	53·83	+1·65	3·58	VII	80	+2·0	2·2	+0·8	3	8	0	14	118	99	0	0	123	...	...	...	...	...	...	...	...	...	Muzaffarabad.
4·0	0	...	32·81	+11·29	1·83	II	68	+12·9	3·4	+0·8	0	2	0	0	0	9	2	0	352	...	...	...	...	...	...	...	...	...	Dras.
5·1	+0·4	...	1·55	—1·63	0·14	IV	3	—6·6	2·0	+0·3	30	20	14	4	50	24	10	0	213	...	...	...	...	...	...	...	...	...	Leh.
4·6	+0·1	...	4·11	—2·85	0·39	VII	14	—4·4	5·2	+1·6	2	22	34	19	25	62	41	8	152	...	...	...	...	...	...	...	...	...	Skardu.
5·2	+0·6	...	4·93	+0·12	0·55	VIII	15	—0·2	0·3	—0·9	0	1	0	1	0	7	6	0	360	...	...	...	...	...	...	...	...	...	Gilgit.
																													N.-W. F. Province
4·1	+0·3	5·4	9·82	—3·69	1·98	III	22	—3·9	2·8	+0·9	56	25	32	29	76	33	9	23	82	69	89	45	26	23	26	5	24	58	Peshawar.
2·1	...	...	12·07	...	1·47	VI	26	...	5·7	...	24	70	36	41	24	57	49	58	6	...	...	...	...	...	...	...	...	...	Miranshah.
2·7	+0·6	3·2	9·92	+0·83	1·87	VII	16	—0·3	2·5	+1·2	49	101	35	25	16	20	20	46	53	26	59	54	64	56	23	10	6	67	D. I. Khan.
																													†Baluchistan
2·4	+0·5	4·1	9·73	—1·22	1·18	VIII	26	+1·3	2·3	+0·1	1	6	0	1	0	0	0	0	357	9	9	15	8	14	7	26	9	268	Fort Sandeman.
2·1	...	...	6·84	...	1·50	VII	11	...	4·6	...	26	23	13	36	35	21	7	33	171	...	...	...	...	...	...	...	...	...	Sibi.
2·7	+0·8	3·9	8·91	—0·84	2·17	VI	19	—5·2	...	...	14	17	9	76	108	7	8	14	112	28	5	1	8	43	22	122	112	24	Quetta.
2·6	+0·5	3·2	5·12	—2·10	0·88	XII	11	—8·4	4·5	—0·6	2	4	32	98	36	36	10	8	139	11	4	0	8	14	90	111	83	44	Chaman.
1·9	+0·1	...	7·81	+1·17	0·91	VIII	21	+2·9	5·3	+0·7	3	4	9	46	113	111	14	10	55	...	...	...	...	...	...	...	...	...	Kalat.
1·8	—0·1	2·5	3·01	—0·71	1·23	XII	6	—3·2	5·3	+1·2	39	86	41	32	19	31	27	20	70	11	39	48	42	48	101	33	31	12	Dalbandin.
2·2	...	2·6	0·81	...	0·41	XII	2	...	8·2	...	104	65	43	12	7	6	2	53	73	86	11	16	46	24	14	25	121	22	Nokkundi.*
2·6	...	1·6	7·50	...	1·10	VIII	18	...	2·8	...	73	8	11	9	35	15	3	50	161	7	4	10	35	178	69	7	15	35	Las Bela.
																													Sind
0·6	—1·1	0·7	5·98	+2·30	1·95	VII	6	—1·5	3·9	+1·4	10	23	26	128	29	33	2	31	77	22	18	8	139	30	57	5	30	50	Jacobabad.
1·4	...	...	2·75	...	0·78	VII	8	...	3·3	...	19	44	14	140	27	22	4	2	93	...	...	...	...	...	...	...	...	...	Sukkur.
1·9	...	1·2	4·71	...	2·50	VII	6	...	7·1	...	42	52	20	15	87	100	31	7	11	40	12	4	4	98	131	51	7	6	Chhor.
2·0	0	1·9	8·45	+1·33	1·99	VIII	9	—0·6	6·9	—0·2	66	17	4	4	80	111	26	36	21	62	30	7	14	89	126	41	27	9	Hyderabad.
3·8	+0·2	3·2	8·44	+0·88	6·19	VII	6	—3·3	10·0	+1·1	30	94	13	3	1	62	126	29	7	1	10	8	14	10	212	106	4	0	Manora (Karachi)
1·5	...	...	8·83	...	2·05	VIII	9	...	6·4	...	24	48	10	4	26	101	88	9	55	...	...	...	...	...	...	...	...	...	Badin.
0·2	...	...	6·78	...	3·25	VI	5	...	2·2	...	63	35	10	2	84	45	13	38	75	...	...	...	...	...	...	...	...	...	Naushahro.
																													Rajputana, West
1·6	—0·6	2·1	16·98	+5·19	3·52	VIII	23	+3·5	5·9	+1·4	7	21	47	68	47	115	43	8	9	30	30	10	25	40	84	77	61	8	Bikaner.
3·2	+0·1	3·4	15·02	+1·40	2·90	VIII	22	+3·1	4·9	+1·3	35	79	10	5	19	126	30	4	57	28	44	4	7	27	140	50	27	38	Jodhpur.
2·8	...	2·8	9·79	...	2·52	VIII	12	...	5·1	...	27	11	7	12	41	59	54	75	79	20	30	18	18	53	72	33	38	60	Barmer
																													Rajputana, Eas
2·1	—1·0	2·9	28·25	+4·04	4·16	VIII	44	+8·3	3·7	—0·6	24	49	32	5	6	17	81	69	82	28	26	18	12	16	68	95	86	32	Jaipur.
3·0	+0·3	3·6	28·77	+8·12	4·73	VIII	38	+8·0	3·8	0	8	13	8	5	7	55	86	9	174	20	17	10	11	5	59	104	50	89	Ajmer.
3·6	+1·1	3·8	50·96	+22·73	5·04	VIII	42	+6·2	2·5	—0·2	9	8	3	7	0	41	90	71	130	12	15	11	9	2	32	65	83	136	Kotah.
3·1	...	3·0	40·51	...	3·90	VIII	48	...	2·5	...	17	14	7	6	1	39	98	18	165	35	34	12	2	2	34	77	42	127	Jhalrapatan.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity. inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature. °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity. %		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Gujarat																						
Deesa	460	29·346	—·006	29·239	95·4	+1·2	116	VI	65·4	—1·5	33	I	76·7	91·5	67·3	72·6	·568	+·037	·570	59	+2	39
Bhuj	343	29·465	—·008	29·367	91·2	+0·1	108	IV,VI	67·9	—0·5	38	I	75·9	89·0	65·7	68·3	·545	—·082	·435	58	—9	33
Dwarka	37	29·791	—·011	29·7.1	84·7	+0·3	103	IV	73·1	+0·2	48	I	77·5	81·8	71·2	73·0	·697	—·040	·712	71	—6	65
Jamnagar	51	...	...	...	89·8	+0·3	106	IV, V	66·9	—1·2	38	II	77·2	...	...	...	...	...	...	...	...	...
Rajkot	432	29·379	—·012	29·272	92·9	0	109	IV	66·7	+0·6	35	I	74·6	90·4	66·0	67·9	·557	—·043	·395	61	—4	30
Veraval	19	29·815	0	29·712	86·0	+1·2	105	IV	71·3	0	46	I	77·3	81·7	69·7	75·1	·654	—·017	·795	67	—4	73
Surat	39	29·785	—·014	29·692	90·9	+0·4	109	III	70·3	+0·4	43	I	75·5	88·9	69·2	73·9	·664	—·011	·646	72	+2	49
Bhavnagar	55	29·784	+·001	...	92·9	—0·7	111	V	68·5	—0·7	36	I	75·8	...	66·0	...	·543	—·070	...	56	—8	...
Ahmadabad	163	29·609	0	29·550	93·3	—1·3	109	V	70·8	+0·2	43	I	77·2	90·6	67·2	70·0	·562	—·014	·472	57	—2	35
Dohad	1,009	28·816	...	...	91·0	...	108	IV	66·1	...	32	I	72·2	...	65·1	...	·553	...	...	68	...	.
Tankhala *	357	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Baroda	114	29·716	...	29·600	93·3	...	110	V	66·1	...	35	I	74·4	90·0	68·8	73·7	·657	...	·624	74	...	47
Central India, West																						
Neemuch	1,626	28·192	—·002	28·102	88·7	—0·1	110	VI	64·6	+0·1	33	I	73·9	85·5	64·3	68·7	·503	+·008	·495	58	0	42
Indore	1,823	27·994	—·006	27·895	87·5	—0·7	107	V	63·4	—·05	32	I	73·1	84·6	62·6	64·9	·453	—·068	·369	56	—6	34
Bhopal	1,643	28·168	...	28·067	88·0	...	110	V, VI	64·7	...	37	I	72·9	85·5	62·7	67·1	·463	...	·429	57	...	39
Guna	1,571	28·221	...	28·123	88·6	...	113	VI	62·3	...	28	I	70·6	85·1	61·5	67·3	·452	...	·448	60	...	40
Central India, East																						
Nowgong	750	29·034	—·002	28·939	90·0	+0·7	116	VI	63·7	—1·9	34	I, II	73·5	85·8	64·5	69·9	·527	—·008	·540	64	—1	47
Sutna	1,041	28·731	—·005	28·634	89·8	+1·8	114	V, VI	64·9	—1·0	35	I	73·2	85·6	61·8	68·3	·501	—·022	·480	61	—1	43
Umaria	1,500	28·280	...	28·183	88·3	...	112	V, VI	63·9	...	35	I, II	73·4	83·5	63·9	68·0	·500	...	·499	60	...	47
Berar																						
Akola	925	28·891	0	28·763	92·4	—0·8	113	V	67·4	0	39	I	75·2	90·0	64·6	69·2	·487	—·018	·444	56	0	36
Amraoti	1,213	28·581	—·015	...	91·3	—0·8	113	V	69·5	+0·3	43	I	76·1	...	63·3	...	·433	—·085	...	49	—8	...
Central Provinces, West																						
Khandwa	1,044	28·753	—·018	...	91·8	—0·3	111	IV, V	66·1	—1·0	35	I	73·3	...	64·0	...	·499	0	...	58	0	...
Hoshangabad	992	28·826	+·004	...	89·6	—0·7	113	V	66·9	+1·4	40	I	74·0	...	64·3	...	·497	—·006	...	59	0	...
Saugor	1,808	27·989	—·002	27·895	86·9	—1·0	111	VI	66·5	0	35	I	73·7	82·9	61·8	64 8	·417	—·048	·389	51	—4	39
Jubbulpore	1,289	28·494	—·005	28·389	88·4	...	111	V, VI	63·1	...	34	I	71·8	84·8	62·9	67·4	·482	...	·454	63	...	43
Seoni	2,030	27·777	—·002	...	87·9	+0·3	111	V	64·6	0	39	I	72·9	...	62·7	...	·456	—·040	...	57	—4	...
Nagpur	1,017	28·777	—·007	28·659	91·6	—0·4	115	V	67·3	—1·5	42	I, II	74·9	88·0	64·6	69·8	·490	—·041	·483	58	—1	40
Central Provinces, East																						
Pendra	2,040	27·750	—·012	27·650	85·6	+1·9	109	V	65·4	+1·4	38	I	73·3	81·1	63·3	66·3	·471	—·016	·466	58	—3	47
Raipur	970	28·797	—·023	28·691	91·2	+1·9	115	V	69·1	0	45	I	76·4	87·1	66·0	69·4	·523	—·041	·493	58	—6	43
Kanker	1,318	28·462	...	28·364	89·0	...	110	V	65·7	...	39	I, II	73·5	85·5	65·6	69·5	·549	...	·520	66	...	47
Chanda	634	29·155	—·021	29·036	91·7	—1·1	115	V	67·6	—1·0	41	I	75·8	88·7	66·7	71·0	·556	—·037	·529	63	—2	45
Jagdalpur	1,813	27·978	—·020	27·882	88·2	+0·6	112	V	65·2	—0·6	43	I	71·9	83·0	66·0	68·8	·581	—·039	·530	74	—2	51
Konkan																						
Bombay	37	29·805	—·005	29·715	87·1	+0·5	96	X	73·9	+0·3	53	I	77·8	82·3	72·8	75·0	·745	—·023	·773	77	—1	70
Alibag	23	29·825	...	...	85·5	...	97	X	71·9	...	49	I	77·7	...	72·0	...	·723	...	...	74	...	...
Ratnagiri	207	29·634	—·005	...	86·3	—0·9	97	X	73·3	+0·1	57	I	79·7	...	72·1	...	·699	—·018	...	69	—3	...
Marmagao	202	29·638	—·009	...	85·4	...	95	X	74·5	...	66	I, XI	78·3	...	73·3	...	·749	...	...	77	...	...
Karwar	44	29·810	—·004	...	86·7	+0·6	96	II, X	72·7	0	61	*	75·8	...	...	...	...	...	...	...	...	...

* Date not available for Complete year, hence no annual means.

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1934.

Cloud amount (tenths of sky). Mean 8 hrs. L. M. T.	Cloud amount (tenths of sky). Departure from normal.	Mean 17 hrs. I. S. T.	Rainfall, inches. Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Number of rainy days (0·10″ or more.) Total in the year.	Departure from normal.	Wind velocity, miles per hour. Mean.	Departure from normal.	Wind direction—Number of winds from 8 hrs. L. M. T. N	NE	E	SE	S	SW	W	NW	Calm	17 hrs. I. S. T. N	NE	E	SE	S	SW	W	NW	Calm	STATION.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																														Gujarat
3·1	—0·2	2·8	33·80	+9·10	5·10	VIII	40	+11·3	7·5	+0·3	31	72	50	18	50	62	39	31	12	36	25	9	18	60	90	67	47	13	Deesa.
2·8	—0·3	2·6	12·53	—1·86	2·48	VII	16	—0·3	5·4	—2·2	10	12	3	9	12	97	70	28	124	31	43	21	4	10	111	88	28	29	Bhuj.
4·2	+0·8	3·6	13·23	—0·29	3·31	VI	14	—2·6	10·3	+0·6	76	49	16	7	6	89	79	42	1	26	26	5	0	2	90	121	94	1	Dwarka.
...	...	...	10·05	—10·01	1·55	VI	20	—1·2	...	...	34	28	20	24	48	87	76	48	0	...	...	...	...	...	...	...	...	...	Jamnagar.
4·0	+0·6	4·3	17·88	—8·41	2·95	VIII	25	—6·2	7·4	+0·5	24	20	21	9	12	84	87	39	69	41	44	9	4	8	79	92	66	22	Rajkot.
3·9	+0·4	3·3	34·31	+15 51	10·21	VII	20	—5·3	6·5	—0·5	58	34	5	3	10	35	79	48	93	10	4	1	18	23	53	163	82	11	Veraval.
4·9	+1·4	4·0	51·13	+10·16	5·54	VI	51	+4·3	4·6	0	30	37	45	41	56	61	30	20	45	23	22	16	4	70	112	70	40	8	Surat.
3·7	+0·3	...	28·46	+7·26	4·85	VIII	35	+5·3	4·6	—0·8	67	4	4	4	21	43	146	36	40	...	...	...	...	...	...	...	...	...	Bhavnagar.
3·7	+0·4	3·2	28·59	—0·24	5·36	VII	39	+4·0	4·0	+0·2	20	55	44	9	15	67	83	51	21	25	34	25	6	24	71	82	62	36	Ahmadabad.
3·9	...	...	21·05	—7·64	1·79	VI	48	+6·4	4·7	...	10	48	13	26	18	116	66	3	65	...	...	...	...	...	...	...	...	...	Dohad.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Tankhala*
3·6	...	2·8	41·04	...	4·33	VIII	52	...	3·7	...	26	24	8	8	61	73	41	21	103	41	36	7	2	54	63	81	38	43	Baroda.
																													Central India, West
3·4	+0·5	4·2	44·54	+15·35	3·41	VI	42	+5·8	6·1	0	13	93	10	11	2	57	104	30	45	18	90	12	4	3	92	84	40	22	Neemuch.
3·3	—0·4	3·6	57·66	+24·54	4·50	VIII	54	+8·2	4·6	+1·4	14	40	20	39	6	39	104	52	51	38	47	16	19	5	49	111	62	18	Indore.
3·3	...	3·5	59·48	...	5.12	VIII	72	...	3·7	...	7	25	24	12	10	24	106	57	100	12	29	28	12	7	26	113	84	53	Bhopal.
2·6	...	2·8	62·52	...	7.15	VIII	58	...	3·8	...	2	15	24	4	11	15	118	2	174	1	24	22	1	2	13	183	10	109	Guna.
																													Central India, East.
3·7		4·4	42·97	+0·23	2·78	VII	60	+12·0	2·5	+0·6	16	23	25	10	26	126	78	23	38	43	30	16	4	4	39	53	101	75	Nowgong.
3·5	—0·1	4·0	62·77	+18·00	5·68	VIII	66	+11·1	3·3	—0·3	15	13	26	17	29	76	73	41	75	59	23	22	11	6	29	65	107	43	Sutna.
4·0	..	4·5	57·96	...	4·23	VIII	76	...	2·5	...	23	13	17	26	23	29	69	56	109	66	21	13	11	5	9	52	93	95	Umaria.
																													Berar
2·5	1·4	3·0	34·43	+3·08	2·88	VIII	45	—0·4	4·3	—0·2	0	20	15	4	0	6	168	19	133	14	23	13	1	0	16	105	60	133	Akola.
4·1	+0·6	...	44·15	+11·10	4·19	VIII	59	+11·4	6·8	+2·4	12	67	63	10	11	79	83	31	9	...	...	...	...	...	...	...	...	...	Amraoti.
																													Central Provinces West
2·7	—0·6	...	42·81	+13·18	4·05	VII	55	+13·6	5·2	...	25	35	24	9	24	32	127	29	60	...	...	...	...	...	...	...	...	...	Khandwa.
3·9	+0·4	...	84·56	+35·73	3·92	VIII	79	+23·7	2·9	+0·5	13	47	60	14	9	49	81	45	47	...	...	...	...	...	...	...	...	...	Hoshangabad.
3·6	+0·4	3·9	80·29	+41·34	9·40	VIII	80	+24·1	5·2	+1·3	22	40	35	30	18	50	86	54	30	55	47	19	11	7	27	86	90	23	Saugor.
4·2	+0·9	4·4	57·97	+12·86	4·87	VI	81	+17·3	3·5	+1·4	13	15	10	81	43	49	82	8	64	60	54	15	14	10	44	83	41	44	Jubbulpore.
3·6	+0·3	...	59·07	+5·85	4·72	VIII	78	+7·8	4·2	+1·2	70	7	5	8	7	41	30	30	167	...	...	...	...	...	...	...	...	...	Seoni.
4·4	+0·7	5·0	38·16	—10·51	3·69	IX	59	—3·8	4·5	+0·6	35	44	48	8	1	21	93	86	29	24	35	78	13	3	22	84	72	33	Nagpur.
																													Central Provinces East
4·0	+0·7	4·7	62·82	+12·76	5·51	VIII	75	+1·5	2·9	—0·6	52	23	7	18	28	16	19	71	131	56	19	3	9	29	29	19	62	139	Pendra.
3·5	—0·2	3·7	45·75	—5·08	3·47	IX	57	—6·3	2·7	—1·4	14	13	2	3	6	26	39	5	257	8	18	4	5	0	23	51	14	242	Raipur.
4·5	...	5·1	51·90	...	5·33	VII	74	...	...	...	4	6	7	6	7	53	53	12	217	22	23	6	4	3	46	74	38	149	Kanker.
3·5	—0·2	3·8	48·80	—3·10	4·98	IX	65	+2·5	2·6	—0·2	18	7	10	9	15	45	60	28	173	23	14	7	9	10	37	49	38	172	Chanda.
5·6	+1·5	6·9	82·22	+18·42	7·37	VIII	82	—0·4	2·0	...	7	12	1	8	17	82	42	17	179	17	22	2	7	27	54	62	21	153	Jagdalpur.
																													Konkan.
4·3	0	4·0	73·25	+2·62	4·68	VII	86	+13·5	6·6	—3·9	33	86	64	34	24	56	48	19	1	71	2	1	1	5	39	83	163	0	Bombay.
4·6	...	...	96·19	...	6·62	VI	93	...	8·0	...	31	88	53	21	28	71	11	18	44	...	...	...	...	...	...	...	...	...	Alibag.
2·0	—1·9	...	129·45	+29·47	8·72	VI	104	+11·3	7·4	+0·8	48	24	76	36	22	41	61	36	16	...	...	...	...	...	...	...	...	...	Ratnagiri.
5·1	+0·4	...	95·94	...	6·57	VI	92	...	9·3	...	51	58	85	33	18	64	28	28	0	...	...	...	...	...	...	...	...	...	Marmagao.
4·3	+0·4	...	97·10	—23·02	6·48	VI	93	—6·2	3·2	+0·4	6	79	0	12	12	82	1	87	82	...	...	...	...	...	...	...	...	...	Karwar.

* The lowest minimum temprature was recorded in January, February, November and December.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry Bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity %.		
		Mean 8 hrs. I. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. I. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bombay Deccan																						
Malegaon	1,430	28·399	+·001	28·286	92·5	+0·3	111	V	64·3	—1·0	35	I, II	75·4	88·6	64·9	68·3	·488	—·024	·468	55	—2	37
Ahmadnagar	2,154	27·692	—·007	...	89·0	—0·6	107	V	63·7	—0·3	40	I	73·2	...	62·2	...	·433	—·071	...	53	—7	...
Poona	1,834	28·009	—·004	27·903	88·7	—0·7	105	III, IV, V	62·9	—1·8	39	I, II	71·6	84·9	63·8	67·3	·504	—·017	·447	65	—2	42
Satara	2,320	27·537	...	27·443	...	...	...	...	65·6	...	46	I	72·4	82·6	62·9	66·9	·459	...	·459	58	...	44
Sholapur	1,570	28·247	—·017	...	91·9	+0·5	110	V	67·7	—0·6	49	I	75·5	...	64·5	...	·471	—·028	...	54	—1	...
Miraj	1,824	28·042	...	...	88·8	...	104	IV, V	65·4	...	49	XI	73·2	...	65·6	...	·541	...	...	66	...	...
Bijapur	1,950	27·893	—·002	...	89·9	—0·7	106	V	67·3	—0·5	50	I, XII	74·3	...	65·1	...	·501	—·005	...	58	—7	...
Belgaum	2,562	27·313	+·008	...	84·9	+0·3	102	IV, V	63·9	—0·2	50	XI	70·3	...	64·2	...	·529	—·011	...	71	0	...
Gadag	2,131	27·738	...	...	88·9	...	105	IV, V	67·5	...	56	I, XI	72·1	...	66·0	...	·565	...	...	71	...	...
Hyderabad, North																						
Aurangabad	1,905	27·947	—·004	...	89·6	—1·0	109	V	66·2	+0·1	43	I	73·9	...	62·6	...	·432	—·053	...	52	—3	...
Nizamabad	1,248	28·558	—·010	...	92·3	+0·3	113	V	68·2	—0·4	45	I	76·1	...	66·4	...	·528	—·066	...	60	—4	...
Hyderabad, South																						
Gulbarga	1,503	28·338	+·009	...	92·0	—0·8	111	V	68·4	—0·7	48	XII	76·7	...	65·5	...	·487	—·089	...	54	—9	...
Raichur	1,311	28·537	+·017	...	91·5	—0·9	109	V, VI	71·7	—0·1	56	I	78·2	...	70·1	...	·639	+·033	...	65	+1	...
Hyderabad	1,709	28·111	+·001	...	90·8	+0·4	112	V	68·5	—1·1	50	XII	75·4	...	66·6	...	·541	—·054	...	63	—6	...
Hanamkonda	877	28·036	—·002	..	91·5	+0·3	114	V	71·4	+0·3	58	I	76·7	...	69·5	...	·633	+·035	...	69	+8	...
Mysore																						
Chitaldrug	2,405	27·461	+·003	...	87·7	+0·7	103	IV	67·7	+0·2	50	XI	73·2	...	67·1	...	·588	+·013	...	72	+2	...
Balehonnur	2,968	...	...	..	80·4	...	95	III	63·4	...	50	XI	67·7	...	65·0	...	·591	...	...	87	...	...
Hassan	3,149	26·773	+·010	...	84·8	+1·5	99	IV	63·8	+1·1	52	XI	69·7	...	65·1	...	·571	—·007	...	78	0	...
Bangalore	3,021	26·880	+·002	26·780	85·4	+0·8	98	IV	64·8	+0·5	53	II, XI	70·3	81·5	65·3	66·0	·561	—·018	·442	77	—1	45
Mysore	2,518	27·370	0	...	86·5	+0·2	99	IV	66·0	+0·1	56	XI	71·7	...	66·7	...	·593	—·013	...	76	0	...
Malabar																						
Mangalore	72	29·783	—·007	...	86·9	—0·8	93	I, II, X	74·3	0	64	I	78·9	...	74·2	...	·788	—·002	...	79	+1	...
Calicut	27	29·831	—·004	...	87·7	+1·3	94	IV	74·4	—0·1	66	I, XI	78·7	...	74·3	...	·794	—·021	...	80	—4	...
Cochin	9	29·863	+·005	...	85·6	—2·2	91	II, XII	76·4	+0·4	68	II	80·3	...	74·9	...	·792	—·013	...	77	—3	...
Trivandrum	200	29·649	—·008	29·557	85·8	+1·5	91	IV	75·9	+0·8	69	II	79·7	83·7	75·5	77·2	·825	+·034	·838	81	—1	73
Madras, Southeast																						
Pamban	37	29·799	—·004	...	87·5	—0·2	93	IV, V, VI	77·5	0	69	II	81·6	...	77·3	...	·879	+·014	...	80	0	...
Madura	463	29·373	—·008	...	93·9	+0·2	106	V	75·4	+1·2	65	II	79·6	...	71·8	...	·689	—·061	...	68	—3	...
Negapatam	31	29·803	—·004	29·701	89·8	—0·4	105	V	77·1	+0·9	66	II	81·1	84·4	74·7	76·6	·774	—·042	·808	73	—3	69
Trichinopoly	255	29·587	—·007	...	93·2	—1·1	107	V	75·2	+0·9	62	III	80·9	...	73·1	...	·708	—·031	...	68	—4	...
Coimbatore	1,341	28·506	—·006	...	88·3	—1·6	100	III, IV	70·1	+0·4	59	XI	76·3	...	70·5	...	·671	—·053	...	75	—6	...
Salem	913	29·027	—·005	...	91·9	—1·1	102	III, IV, V	71·8	+0·6	58	II, III, XI	77·1	...	71·1	...	·686	—·056	...	73	—4	...
Cuddalore	39	29·809	+·000	...	89·7	—0·8	110	V	75·1	+0·3	61	II	80·3	...	74·7	...	·790	—·036	...	77	—3	...
Vellore	702	29·121	—·016	...	92·1	+0·2	108	V, VI	72·0	—0·4	56	II, XII	77·3	...	71·5	...	·703	—·024	...	75	—2	...
Madras	22	29·802	—·012	29·701	90·0	—0·9	110	V	74·8	+0·3	59	II	80·5	84·4	75·1	76·5	·799	—·014	·812	78	+1	69
Madras, Deccan																						
Cuddapah	428	29·405	—·002	...	94·6	—1·0	110	V, VI	74·9	+0·4	60	XI, XII	81·5	...	75·1	...	·793	+·082	...	74	+7	...
Bellary	1,473	28·381	+·017	...	91·8	—1·5	107	IV	71·3	+0·4	57	XI	77·9	...	68·5	...	·585	+·009	...	62	+1	...
Kurnool	923	28·916	+·010	...	93·3	—0·5	110	V	71·1	—0·1	53	I, II, XII	77·7	...	68·3	...	·568	—·070	...	61	—7	...
Madras Coast, North																						
Nellore	66	29·745	—·014	29·636	93·7	0	113	V, VI	76·0	—0·2	64	I, II	81·4	88·4	74·3	75·7	·758	—·035	·724	72	—4	56
Masulipatam	10	29·814	—·005	...	88·9	—1·6	113	V	74·0	—0·5	57	XI	79·5	...	74·6	...	·799	—·045	...	79	—2	...
Cocanada	26	29·782	—·015	29·678	89·5	+0·2	110	V	74·3	—0·7	58	I	79·5	84·9	73·7	75·1	·766	—·031	·744	75	—3	63
Vizagapatam	126	29·671	—·011	29·582	86·1	—0·9	103	V	74·7	—0·7	59	I	78·7	82·3	73·7	76·0	·772	+·018	·822	78	+5	74
Calingapatam	19	29·779	—·006	...	87·0	—1·5	104	VI	73·3	—0·5	55	I	77·7	...	73·8	...	·799	—·006	...	88	+2	...
Gopalpur	56	29·731	—·009	29·637	86·0	—0·1	94	III, V	72·6	—0·7	53	I, II	77·6	81·3	73·2	76·0	·774	—·011	·834	80	—1	65

8 HRS. (L. M. T.) AND 17 HRS. (I. S.T) FOR THE YEAR 1934.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											8 hrs. L. M. T.									17 hrs. I. S. T.								
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	36	37	38	39	40	41	42	43		45	46	47	48	49	50	51	52	53
																												Bombay Deccan
4·0	+1·0	4·4	14·02	—8·21	1·41	I	35	+0·5	4·9	—1·5	17	11	3	3	9	90	126	45	61	46	55	25	17	11	51	96	46	18	Malegaon.
4·0	+1·1	...	38·44	+11·71	3·40	VIII	34	—2·1	5·7	—1·1	44	8	6	17	18	41	72	95	64	...	...	...	...	...	...	...	...	...	Ahmadnagar.
4·0	+0·5	4·5	21·43	—5·68	3·81	XI	41	—6·4	4·6	...	3	15	16	8	34	43	110	29	98	12	11	48	29	5	15	160	63	22	Poona.
2·7	...	3·1	40·91	...	6·18	XI	66	...	2·8	...	10	8	3	7	2	11	88	24	206	21	16	3	12	3	31	189	14	76	Satara.
3	—0·8	...	30·01	+1·56	3·55	IX	43	+1·7	6·9	—0·6	52	33	38	43	20	61	57	47	14	...	...	...	...	...	...	...	...	...	Sholapur.
1·0	...	...	23·28	...	2·07	X	42	...	5·9	...	11	5	57	13	6	30	111	62	70	...	...	...	...	...	...	...	...	...	Miraj.
3·2	—0·4	...	21·83	+0·93	2·07	VII	36	—0·1	4·3	—0·7	43	18	24	13	32	44	100	32	59	...	...	...	...	...	...	...	...	...	Bijapur.
3·8	—0·8	...	50·15	+0·02	2·75	VII	84	+3·1	4·7	—5·0	1	28	46	17	2	38	103	20	97	...	...	...	...	...	...	...	...	...	Belgaum.
4·2	...	...	13·60	...	1·84	XI	33	...	...	...	1	14	76	14	5	50	137	16	52	...	...	...	...	...	...	...	...	...	Gadag.
																												Hyderabad, North
4·4	+0·7	...	32·40	+4·87	2·81	VIII	45	+1·4	7·3	+0·4	17	27	103	18	4	51	108	18	19	...	...	...	...	...	...	...	...	...	Aurangabad.
3·1	—0·6	...	39·00	—1·08	3·42	VIII	57	+1·3	...	...	39	76	4	13	17	73	21	42	74	...	...	...	...	...	...	...	...	...	Nizamabad.
																												Hyderabad, South
4·7	+1·4	...	23·66	—7·42	3·45	VII	39	—9·3	7·4	+0·7	29	54	79	15	14	58	67	39	10	...	...	...	...	...	...	...	...	...	Gulbarga.
3·9	+0·4	...	27·05	—0·95	3·10	VII	43	—1·7	7·7	+0·7	9	32	1	104	0	134	1	84	0	...	...	...	...	...	...	...	...	...	Raichur.
4·7	+0·6	...	22·14	—10·13	1·70	VIII	47	—3·1	3·7	0	8	20	26	26	17	29	109	32	98	...	...	...	...	...	...	...	...	...	Hyderabad.
4·1	—0·2	...	35·70	+1·28	2·30	VII, VIII	51	+0·5	...	...	40	14	5	75	57	22	67	58	27	...	...	...	...	...	...	...	...	...	Hanamkonda.
																												Mysore
5·0	+0·8	...	26·83	+1·93	3·51	X	39	—8·1	6·1	+0·8	0	25	67	27	7	106	96	14	23	...	...	...	...	...	...	...	...	...	Chitaldrug
5·7	...	...	92·60	...	5·21	VII	104	...	1·9	...	10	11	17	83	26	13	23	27	155	...	...	...	...	...	...	...	...	...	Balehonnur.
6·6	+1·2	...	21·40	—13·93	1·63	X	54	—13·1	5·4	+1·7	11	4	78	27	8	53	124	27	33	...	...	...	...	...	...	...	...	...	Hassan.
3·2	+1·0	6·2	24·74	—16·63	2·90	X	50	—8·9	6·5	+1·4	3	29	78	17	10	64	142	18	4	14	43	106	28	7	27	107	23	15	Bangalore.
5·3	—0·3	...	36·48	+5·08	3·60	X	64	+9·2	6·1	—0·6	6	51	38	4	7	106	75	4	72	...	...	...	...	...	...	...	...	...	Mysore.
																												Malabar
5·9	+0·8	...	116·42	—9·26	6·03	VI	122	+5·5	...	...	19	60	182	11	6	20	17	31	19	...	...	...	...	...	...	...	...	...	Mangalore.
5·4	+0·4	...	105·25	—8·91	5·67	VI	110	—3·9	3·5	—1·9	12	3	14	8	2	0	7	26	298	...	...	...	...	...	...	...	...	...	Calicut.
5·7	+0·9	...	97·95	—16·61	4·65	VI	113	—16·5	4·0	+0·1	22	143	81	20	1	6	14	17	51	...	...	...	...	...	...	...	...	...	Cochin.
5·5	—0·2	6·5	56·37	—8·14	3·83	XI	88	—6·8	4·1	—0·1	128	5	5	6	2	0	10	59	150	22	0	0	2	16	30	118	120	57	Trivandrum.
																												Madras, Southeast
4·4	+0·8	...	38·45	—3·55	4·49	X	46	—0·5	11·9	+4·0	44	51	24	39	71	64	18	31	23	...	...	...	...	...	...	...	...	...	Pamban.
5·8	+0·8	...	24·82	—8·76	2·07	X	40	—9·1	3·9	+0·2	59	65	31	4	2	7	69	107	21	...	...	...	...	...	...	...	...	...	Madura.
6·8	+1·7	6·2	37·07	—17·91	5·56	X	44	—11·8	8·6	+2·9	12	33	17	12	16	64	124	71	16	14	98	30	80	68	55	18	2	0	Negapatam.
4·4	—0·1	...	26·93	—6·25	2·91	X	43	—3·9	4·9	+0·8	52	71	1	7	14	117	31	10	12	...	...	...	...	...	...	...	...	...	Trichinopoly.
6·1	+1·6	...	20·16	—2·13	2·24	X	45	+0·6	4·9	+1·4	45	59	18	21	89	76	13	9	35	...	...	...	...	...	...	...	...	...	Coimbatore.
4·3	—0·3	...	34·59	—4·71	2·82	X	59	—4·4	5·0	+1·7	6	101	10	2	34	104	31	6	71	...	...	...	...	...	...	...	...	...	Salem.
6·0	+1·5	...	52·89	—0·05	8·52	XI	52	—4·4	6·7	+3·2	43	18	5	6	18	89	94	81	11	...	...	...	...	...	...	...	...	...	Cuddalore.
4·9	+1·2	...	40·38	—1·63	3·86	X	51	—5·2	3·8	+1·1	22	16	5	11	22	47	107	51	84	...	...	...	...	...	...	...	...	...	Vellore.
6·1	+1·4	6·2	36·66	—14·08	3·93	X	51	—6·3	7·6	+2·8	12	21	20	6	46	126	69	65	0	29	60	51	130	74	5	9	7	0	Madras.
																												Madras, Deccan
4·8	+0·6	...	23·46	—7·77	2·61	IX	45	—1·1	6·3	...	5	34	29	46	10	27	86	94	34	...	...	...	...	...	...	...	...	...	Cuddapah.
4·5	0	...	14·39	—6·12	3·90	X	23	—12·3	4·8	+0·1	17	12	42	57	11	27	89	81	29	...	...	...	...	...	...	...	...	...	Bellary.
4·5	+0·6	...	20·37	—5·64	1·72	VII	40	—6·7	5·6	+0·4	25	34	32	18	15	57	98	26	60	...	...	...	...	...	...	...	...	...	Kurnool.
																												Madras Coast, North
4·8	—0·8	4·9	20·61	—17·37	3·75	X	31	—13·0	5·2	+0·7	12	14	6	29	60	30	112	90	12	6	55	149	50	2	12	70	19	2	Nellore.
3·2	—1·7	...	25·26	—6·33	3·57	XI	57	+2·5	6·4	+1·5	88	27	2	4	61	19	101	20	43	...	...	...	...	...	...	...	...	...	Masulipatam.
4·0	0	4·2	·53	+1·44	3·12	VIII	56	+2·1	3·9	—1·4	24	57	1	2	9	62	90	25	95	3	10	64	49	80	50	44	12	53	Cocanada.
4·7	—0·5	5·2	...	—3·44	2·77	VII	46	—4·9	5·3	+1·8	52	8	2	1	2	55	149	45	51	5	36	66	18	42	150	39	5	4	Vizagapatam.
4·8	+1·0	...	47	—17·00	9·04	X	50	—1·6	7·5	+1·4	89	11	5	2	23	84	101	83	17	...	...	...	...	...	...	...	...	...	Calingapatam.
·3	+1·4	5·0	·72	—0·24	2·98	VII	56	—0·2	10·5	+2·1	108	11	4	5	82	87	9	24	35	23	19	47	34	125	111	1	3	2	Gopalpur.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, inches.			Relative humidity, %		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Hill Stations excluding Kashmir and Baluchistan.																						
Maymyo	3,546	26·373	+·002	26·296	77·9	+1·3	92	V	57·2	+0·8	35	I	65·3	70·5	61·3	63·7	·514	—·019	·523	80	—6	70
Haka	6,100	24·051	...	24·003	68·6	...	83	V	53·0	...	36	XII	57·2	62·7	52·2	56·0	·354	...	·405	73	..	71
Kanpetlet	6,274	23·870	...	23·823	68·4	...	85	V	53·9	...	33	XII	62·1	60·6	54·4	55·5	·355	...	·399	63	...	75
Shillong	4,921	25·065	—·006	25·002	69·5	—0·4	84	V	53·3	—0·1	31	I	60·8	62·6	56·3	58·0	·421	+·000	·467	77	+3	81
Cherrapunji	4,309	25·622	—·009	25·555	68·1	—0·6	81	VIII, IX	57·3	+0·2	36	I	62·3	64·0	58·4	60·5	·459	—·012	·500	79	—2	82
Darjiling	7,432	22·892	—·013	...	58·0	—1·3	72	VIII	47·9	+0·2	28	I	52·3	...	50·0	...	·353	0	...	86	+1	...
Kalimpong	3,913	25·979	—·018	25·898	69·6	+0·1	82	VIII, IX	58·3	+0·7	41	I	62·2	64·2	59·3	60·7	·486	+·001	·508	84	0	81
Muktesar	7,592	22·804	+·012	22·763	63·5	—0·1	82	V	48·5	+0·6	24	II	54·3	57·7	46·6	50·2	·255	—·017	·306	56	—5	61
Mussooree	6,940	23·323	+·025	...	...	...	86	V	50·5	—0·2	23	I	55·1	...	48·8	...	·303	—·006	...	65	—0	..
Simla	7,224	23·062	+·004	23·027	62·6	+0·2	84	VI	49·9	+0·7	21	I	55·9	57·3	46·9	49·1	·250	—·007	·286	51	—1	57
Murree	7,115	23·184	...	23·155	62·1	—2·6	90	VI	47·1	—3·3	17	I	54·2	57·8	45·3	48·2	·233	—·034	·264	51	—5	51
Cherat	4,272	25·655	+·008	...	72·6	0	106	VII	57·2	+0·7	27	I	61·3	...	52·4	...	·318	+·007	...	55	+3	...
Parachinar	5,673	24·377	—·009	24·331	70·3	0	96	VI	48·3	+0·4	17	I	57·9	65·5	47·4	51·8	·251	—·028	·268	47	—9	39
Drosh	4,723	...	...	...	71·3	—1·4	104	VII	51·3	—0·6	18	II	54·8	...	47·2	...	·267	—·021	...	59	+1	...
Mount Abu	3,945	25·990	+·012	25·932	76·0	+0·2	94	VI	61·5	—0·5	34	I	69·0	72·7	58·5	60·7	·377	+·009	·408	53	—1	51
Pachmarhi	3,528	26·396	+·019	26·325	79·4	—0·5	101	VI	59·2	—1·8	32	I	70·0	76·7	59·7	62·3	·402	—·034	·405	57	—5	49
Mahabaleshwar	4,534	25·505	...	...	...	...	...	...	61·1	...	50	I	65·9	...	57·9	...	·396	...	...	63	...	...
Mercara	3,781	26·156	—·006	...	75·7	—0·6	89	III	61·5	+0·4	52	XI	65·3	...	62·9	...	·549	+·008	...	88	+3	...
Kodaikanal	7,688	22·774	+·007	22·724	64·1	—0·8	74	IV	50·3	+0·8	40	I, XI, XII	56·7	57·8	50·0	54·0	·295	—·028	·379	65	—3	80
Coonoor	5,730	24·436	...	...	70·7	...	80	V, VI	53·5	...	38	XI	64·9	...	56·8	...	·378	...	...	63	...	..
Ceylon.																						
Colombo	24	29·844	+·005	...	85·1	—2·0	90	II	74·6	—0·6	63	II	77·5	...	74·5	...	·811	—·029	...	87	+2	...
Trincomale	99	29·721	+·013	...	87·5	—1·8	98	IX	76·3	+0·1	69	II, XI	79·1	...	74·4	...	·788	—·051	...	79	—4	...
Hambantota	61	29·776	—·007	...	85·5	—1·0	95	VIII	74·7	—0·2	67	II, III	78·4	...	74·7	...	·809	+·005	...	83	—7	..
Nuwara Eliya	6,170	24·051	...	...	68·2	...	77	V	50·6	...	30	II	57·8	...	55·5	...	·418	...	...	88	...	...
Arabia.																						
†Aden	98	29·746	—·011	...	90·5	+2·7	99	*	...	...	...	...	79·8	...	74·9	...	·805	+ 005	...	78	+3	

* The highest maximum temperature was recorded in May, June, July, and August.

8 HRS. (L. M. T.) and 17 HRS. (I. S. T.) FOR THE YEAR 1934.

Cloud amount, (tenths of sky.)			Rainfall, inches.				Number of rainy days, (0·10″ or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																			STATION.
											8 hrs. L. M. T.									17 hrs. I. S. T.										
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Hill Stations exluding Kashmir and Baluchistan.
5·3	+0·8	4·6	61·75	+3·13	4·89	VI	97	+6·2	1·7	—0·1	0	3	7	9	56	24	10	1	255	0	1	6	8	28	15	5	2	300	Maymyo.
3·3	...	4·3	94·03	...	3·76	IX	125	...	5·2	...	54	114	48	6	29	25	8	20	66	28	86	90	17	42	26	12	7	57	Haka.
3·9	...	5·2	101·14	...	3·48	VII	125	...	5·2	...	48	30	67	23	119	15	44	3	16	79	15	18	2	48	26	137	23	17	Kanpetlet.
4·9	+0·3	7·0	125·89	+41·97	16·35	VI	139	+15·4	3·1	+0·9	14	36	29	21	31	76	22	11	125	36	26	12	3	24	76	24	3	161	Shillong.
5·7	+0·1	5·3	536·26	+112·19	36·40	VI	171	+11·8	6·1	+2·1	25	63	63	23	42	62	47	14	26	11	49	30	16	46	121	64	6	22	Cherrapunji.
5·1	—0·9	...	111·91	—10·76	5·15	VI	139	+15·8	3·9	+1·1	8	30	77	34	7	14	20	10	165	...	...	...	...	...	...	...	...	...	Darjiling.
5·4	+1·2	5·8	80·99	—0·83	4·38	VIII	104	+3·8	6·8	...	9	1	4	53	7	2	35	196	58	2	1	0	264	55	0	0	19	24	Kalimpong.
3·7	—0·6	4·7	48·52	—3·76	5·03	VIII	79	—2·3	6·1	+1·2	15	30	43	24	13	27	148	21	44	3	11	8	15	11	89	205	2	21	Muktesar.
4·3	+0·5	...	82·64	...	3·48	VIII	95	...	...	...	58	23	26	27	62	14	5	19	136	...	...	...	...	...	...	...	...	...	Mussooree.
4·2	+0·1	4·8	57·92	—5·66	2·70	VII	88	+0·8	2·8	—0·7	31	115	13	43	73	13	2	7	68	48	62	6	44	46	54	17	30	58	Simla.
3·8	+0·1	5·2	55·24	—4·61	4·56	VII	81	+3·9	4·1	...	8	22	49	81	21	9	52	32	91	8	8	22	52	39	37	91	32	76	Murree.
3·7	+0·6	...	22·07	—6·44	2·95	III	33	—9·0	3·9	+1·6	140	5	0	46	55	3	4	90	21	...	...	...	...	...	...	...	...	...	Cherat.
3·4	+0·4	6·0	26·75	—2·77	3·22	VI	64	—0·8	4·8	+2·6	58	2	105	16	91	13	36	8	36	10	14	115	113	62	7	22	10	3	Parachinar.
3·6	+0·6	...	21·42	+4·67	1·14	V	56	+16·0	5·1	+2·3	4	11	59	58	43	29	33	2	126	...	...	...	...	...	...	...	...	...	Drosh.
3·4	0	3·5	100·80	+40·04	12·40	VIII	60	+6·3	4·3	—1·3	31	33	9	19	18	82	55	26	92	42	23	6	11	34	84	46	49	65	Mount Abu.
4·8	+1·2	4·9	107·10	+30·58	9·28	IX	93	+15·5	3·1	—1·2	25	31	22	11	10	11	91	76	88	37	27	14	8	7	7	113	77	80	Pachmarhi.
4·1	...	...	237·30	—28·19	8·98	VIII	122	+0·5	...	...	13	27	186	7	25	43	13	16	33	...	...	...	...	...	...	...	...	...	Mahableshwar.
5·9	—0·3	...	109·41	—16·05	4·75	VII	128	—4·4	7·1	+3·1	5	44	44	5	1	5	60	59	142	...	...	...	...	...	...	...	...	...	Mercara.
4·9	+0·3	7·4	55·30	—6·88	5·15	I	95	—11·6	6·9	+2·0	36	80	35	45	19	2	33	74	35	38	48	20	53	31	2	20	61	92	Kodaikanal.
5·4	...	...	54·02	...	5·53	I	78	...	3·3	...	9	15	20	125	41	22	5	42	86	...	...	...	...	...	...	...	...	...	Coonoor.
																													Ceylon.
6·2	+0·1	...	114·54	+30·38	8·60	XI	112	+1·0	4·8	—0·5	16	75	44	36	14	72	38	9	60	...	...	...	...	...	...	...	...	...	Colombo.
5·2	+0·9	...	49·22	—12·37	3·90	III	78	+5·7	7·4	+0·9	30	44	19	4	6	111	113	4	32	...	...	...	...	...	...	...	...	...	Trincomale.
4·4	—0·2	...	37·07	—3·74	2·44	X	72	+1·4	11·8	+3·1	53	70	3	1	2	49	160	21	5	...	...	...	...	...	...	...	...	...	Hambantota.
6·1	...	...	64·73	—28·65	2·72	I	122	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nuwara Eliya.
																													Arabia.
3·4	—0·7	...	0·47	—1·47	0·20	XI	3	—0·6	6·2	—2·7	37	67	67	14	27	20	47	6	80	...	...	...	...	...	...	...	...	...	†Aden.

† Records observations at 7 hrs. (local time).

TABLE II A—ABSTRACT OF OBSERVATIONS RECORDED AT

Station and Month.	Height of bar cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity. inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity %.		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
TABLE ISLAND. (Bay Islands.)	105																					
January	...	29·785	-·055	...	83·6	+0.6	87	22	75·2	+0·1	70	1	80·4	...	73·3	...	·716	+·006	...	70	-3	...
February	...	29·782	-·031	...	85·0	+1·2	87	16, 20	75·2	+0·4	70	4	80·3	...	72·9	...	·712	-·001	...	69	-5	...
March	...	29·739	-·048	...	87·3	+0·7	90	31	76·3	0	72	4	82·0	...	74·9	...	·768	-·023	...	70	-7	...
April	...	29·702	-·038	...	88·8	-0·6	91	9, 16	78·7	-0·5	73	18	83·7	...	77·3	...	·841	-·008	...	74	0	...
May	...	29·635	-·024	...	90·3	+1·9	93	11, 14	81·4	+1·9	72	30	86·2	...	79·3	...	897	-·033	...	73	-8	...
June	...	29·572	-·030	...	85·6	+0·3	89	2	77·7	-0·1	72	6	82·4	...	78·7	...	·938	-·019	...	84	-4	...
July	...	29·568	-·033	...	84·6	+0·3	88	23	78·1	+0·9	73	2, 4	81·8	...	78·9	...	·948	-·009	...	87	-3	...
August	...	29·617	-·011	...	84·1	+0·1	87	31	77·0	+0·2	74	9, 11, 25	81·4	...	78·5	...	·951	+·010	...	88	-1	...
September	...	29·653	-·017	...	84·2	-0·1	86	3, 9, 21	77·1	0	73	22, 23	80·7	...	77·9	...	·919	-·004	...	88	0	...
October	...	29·734	-·003	...	85·1	-0·1	87	5 days	78·1	+0·4	75	13	82·0	...	78·1	...	·903	+·008	...	83	-1	...
November	...	29·747	-·028	...	84·6	-0·3	88	1	77·2	-0·6	71	20	81·4	...	75·7	...	·818	-·036	...	76	-4	...
December	...	29·826	+·011	...	81·3	-1·8	85	1	74·5	-1·8	69	24	78·0	...	71·5	...	·670	-·071	...	71	-3	...
Year	...	29·697	-·025	...	85·4	+0·2	93	V	77·2	0	69	XII	81·7	...	76·4	...	·840	-·015	...	78	-3	...
CAR NICOBAR. (Bay Islands.)	19																					
January	...	29·754	-·097	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
February	...	29·762	-·100	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
March	...	29·737	-·099	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
April	...	29·717	-·091	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
May	...	29·701	-·069	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
June	...	29·671	-·071	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
July	...	29·648	-·095	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
August	...	29·696	-·066	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
September	...	29·711	-·074	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
October	...	29·741	-·060	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
November	...	29·745	-·074	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
December	...	29·782	-·052	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Year	...	29·722	-·079	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
MINICOY. (Arabian Sea.)	9																					
January	...	29·861	-·052	...	84·7	-1·2	87	1, 4, 7	76·2	...	73	4 days	80·3	...	75·2	...	·799	+·002	...	78	+1	...
February	...	29·901	-·007	...	85·9	-0·5	88	25	73·6	...	63	13	79·8	...	73·9	...	·757	-·043	...	74	-2	...
March	...	29·864	-·013	...	87·7	-0·2	90	28, 31	76·8	...	71	6	82·6	...	75·6	...	·801	-·031	...	71	-3	...
April	...	29·843	+·007	...	89·4	-0·1	92	28	79·3	...	74	30	84·1	...	77·5	...	·838	-·036	...	73	-1	...
May	...	29·847	+·028	...	88·9	-0·1	91	4 days	79·4	...	76	5 days	83·6	...	78·2	...	·882	-·023	...	77	0	...
June	...	29·806	+·001	...	86·3	0	90	1, 2, 4	77·5	...	74	8, 21	82·2	...	77·7	...	·896	-·006	...	81	-1	...
July	...	29·820	-·002	...	85·9	+0·2	87	14 days	76·7	...	73	26, 27	81·6	...	77·2	...	·865	-·016	...	81	-1	...
August	...	29·865	+·019	...	86·9	+1·2	89	16	77·8	...	70	31	82·1	...	77·3	...	·858	-·004	...	79	-2	...
September	...	29·844	-·004	...	85·8	0	87	9 days	77·6	...	74	8, 20	82·5	...	76·9	...	·851	-·013	...	77	-4	...
October	...	29·858	-·005	...	86·0	-1·1	89	1, 2	76·7	...	73	9	81·4	...	77·0	...	·865	+·003	...	81	0	...
November	...	29·905	+·027	...	86·0	-0·3	88	8, 9, 30	74·9	...	69	11	81·6	...	74·6	...	·772	-·075	...	71	-8	...
December	...	29·915	+·017	...	86·2	0	88	7	73·8	...	70	12	81·6	...	74·9	...	·779	-·030	...	73	-4	...
Year	...	29·861	0	...	86·6	-0·1	92	IV	76·7	...	63	II	81·9	...	76·3	...	·830	-·022	...	76	-2	...

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR EACH MONTH AND THE YEAR 1934.

Cloud amount, (tenths of sky.) Mean 8 hrs. L. M. T.	Cloud amount, (tenths of sky.) Departure from normal.	Cloud amount, (tenths of sky.) Mean 17 hrs. I. S. T.	Rainfall, inches. Total of the month or year.	Rainfall, inches. Departure from normal.	Rainfall, inches. Heaviest fall in 24 hours.	Rainfall, inches. Date.	Number of rainy days (0·10 or more.) Total in the month or year.	Number of rainy days (0·10 or more.) Departure from normal.	Wind velocity, miles per hour. Mean.	Wind velocity, miles per hour. Departure from normal.	Wind direction—Number of winds from 8 hrs. L. M. T. N	NE	E	SE	S	SW	W	NW	Calm.	17 hrs. I. S. T. N	NE	E	SE	S	SW	W	NW	Calm.	Station and month.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													TABLE ISLAND (Bay Islands.)
4·8	+0·7	...	0	-0·77	0	...	0	-0·7	7·1	-0·2	12	14	3	1	1	0	0	0	0	...	...	...	...	...	...	...	...	...	January
5·4	+2·2	...	0	-0·12	0	...	0	-0·3	6·7	+0·2	21	2	0	0	2	3	0	0	0	...	...	...	...	...	...	...	...	...	February
5·9	+2·4	...	0	-0·17	0	...	0	-0·3	5·8	+0·4	19	4	0	0	1	1	4	2	0	...	...	...	...	...	...	...	...	...	March
5·6	+1·6	...	4·20	+3·57	1·43	19	6	+4·9	6·0	+0·5	6	2	1	1	4	8	6	2	0	...	...	...	...	...	...	...	...	...	April
5·1	-1·2	...	2·71	-6·04	1·17	22	4	-6·7	11·4	+1·5	2	0	0	0	2	12	12	1	2	...	...	...	...	...	...	...	...	...	May
7·7	0	...	15·55	+0·45	3·43	6	20	+3·2	15·2	-0·4	1	0	0	0	16	12	1	0	0	...	...	...	...	...	...	...	...	...	June
7·3	-0·7	...	11·77	-1·74	3·24	3	14	-3·6	11·0	-6·5	1	0	0	0	9	19	2	0	0	...	...	...	...	...	...	...	...	...	July
7·0	-1·0	...	14·11	+2·64	3·67	29	22	+5·8	13·8	-3·0	1	0	0	0	9	16	5	0	0	...	...	...	...	...	...	...	...	...	August
7·7	+0·7	...	15·93	+4·59	5·68	5	19	+3·4	19·5	+8·2	1	0	0	0	4	19	5	0	1	...	...	...	...	...	...	...	...	...	September
5·8	+0·1	...	5·28	-1·21	2·29	11	7	-8·2	9·4	+2·2	5	9	0	2	1	7	1	1	5	...	...	...	...	...	...	...	...	...	October
4·6	-0·7	...	2·26	-3·39	0·66	8	9	+2·2	7·9	+1·2	14	7	3	2	3	1	0	0	0	...	...	...	...	...	...	...	...	...	November
3·5	-1·3	...	0	-2·37	0	...	0	-2·3	9·0	+1·3	14	13	4	0	0	0	0	0	0	...	...	...	...	...	...	...	...	...	December
5·9	+0·3	...	71·81	-4·56	5·68	IX	101	+1·4	10·2	+0·4	97	51	11	6	52	98	36	6	8	...	...	...	...	...	...	...	...	...	*Year*
																													CAR NICOBAR. (Bay Islands.)
6·0	-0·4	...	6·84	+2·73	3·75	22	12	+7·8	9·3	...	0	11	18	2	0	0	0	0	0	...	...	...	...	...	...	...	...	...	January
1·1	-6·9	...	2·30	+1·19	0·70	13	6	+4·0	7·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	February
5·2	-2·8	...	0·87	-0·61	0·25	10	4	+2·0	4·3	...	6	7	8	1	0	0	0	5	4	...	...	...	...	...	...	...	...	...	March
6·6	-2·0	...	5·64	+2·57	1·41	16	10	+4·7	2·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	April
6·8	-2·1	...	7·20	-5·63	3·31	7	12	-2·3	1·3	...	0	0	1	0	0	0	13	13	4	...	...	...	...	...	...	...	...	...	May
6·6	-0·6	...	19·68	+7·15	4·77	24	21	+6·4	1·2		0	0	0	2	9	4	2	3	10	...	...	...	...	...	...	...	...	...	June
7·2	-2·1	...	11·96	+2·87	2·49	29	12	-0·1	2·1	...	0	0	0	5	11	9	1	1	4	...	...	...	...	...	...	...	...	...	July
8·4	-0·8	...	10·75	+0·24	2·33	26	6	+2·8	2·3	...	2	0	1	0	11	11	3	1	2	...	...	...	...	...	...	...	...	...	August
8·2	-1·0	...	17·90	+5·44	4·66	5	18	+3·5	2·3	...	0	1	1	1	11	8	3	0	5	...	...	...	...	...	...	...	...	...	September
7·7	-1·0	...	7·63	-3·63	1·42	11	13	-1·3	3·6	...	0	2	9	5	4	3	3	0	4	...	...	...	...	...	...	...	...	...	October
6·8	-1·6	...	15·37	+4·75	2·58	24	19	+7·0	4·8	...	6	3	7	1	5	0	0	0	8	...	...	...	...	...	...	...	...	...	November
5·2	-2·8	...	6·17	-1·70	2·60	31	5	-3·7	11·4	...	4	6	21	0	0	0	0	0	0	...	...	...	...	...	...	...	...	...	December
6·5	-2·0	...	112·31	+15·47	4·77	VI	148	+30·8	5·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*Year*
																													MINICOY. (Arabian Sea.)
6·4	+3·4	...	5·81	+3·93	1·58	27	8	+5·3	3·1	-0·5	10	8	1	3	1	0	0	2	6	...	...	...	...	...	...	...	...	...	January
3·5	+0·5	...	0·45	-0·20	0·45	3	1	-0·1	1·8	-1·5	7	6	3	0	0	0	0	3	9	...	...	...	...	...	...	...	...	...	February
5·3	+2·5	...	0·40	-0·64	0·40	20	1	-0·6	2·1	-1·2	12	4	0	1	0	0	0	9	5	...	...	...	...	...	...	...	...	...	March
4·9	+1·0	...	2·41	-0·21	1·10	13	3	-0·6	2·8	-1·3	3	0	0	0	0	0	7	16	4	...	...	...	...	...	...	...	...	...	April
6·4	+1·4	...	2·49	-3·90	0·70	16	8	-0·6	4·5	-0·6	3	0	0	0	3	1	6	16	2	...	...	...	...	...	...	...	...	...	May
6·8	0	...	12·47	+0·56	2·88	8	16	-1·3	9·5	-1·0	1	0	0	0	1	11	14	2	1	...	...	...	...	...	...	...	...	...	June
6·6	+0·3	...	7·88	-0·92	1·79	26	20	+6·1	7·2	-3·1	1	0	0	0	0	3	17	10	0	...	...	...	...	...	...	...	...	...	July
5·5	0	...	2·59	-4·57	1·02	23	6	-5·0	5·4	-2·8	1	0	0	0	0	4	13	13	0	...	...	...	...	...	...	...	...	...	August
5·7	-0·6	...	3·05	-3·30	1·00	20	7	-3·5	11·4	+4·9	1	0	0	0	0	0	14	15	0	...	...	...	...	...	...	...	...	...	September
7·2	+2·0	...	7·67	-0·65	1·25	21	15	+3·4	4·4	-0·8	4	1	3	3	1	3	6	6	4	...	...	...	...	...	...	...	...	...	October
3·8	-0·7	...	4·69	-0·60	1·63	9	5	-2·1	2·8	-1·1	3	4	1	1	2	1	7	4	7	...	...	...	...	...	...	...	...	...	November
3·3	-0·2	...	0	-3·51	0	...	0	-4·2	2·0	-1·6	0	16	6	0	1	0	0	0	8	...	...	...	...	...	...	...	...	...	December
5·5	+1·0	...	49·91	-14·07	2·83	VI	90	-2·8	4·7	-1·0	46	39	14	8	9	23	84	96	46	...	...	...	...	...	...	...	...	...	*Year*

TABLE II-A—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION AND MONTH.	Height of bar cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity %.		
		Mean 8 hours L.M.T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	17 hrs I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
AMINI DIVI (Arabian Sea)	13																					
January	...	29·867	−·062	...	87·7	+1·6	90	6 days	76·3	+2·3	70	1	82·5	...	75·9	...	·808	+·032	...	73	+1	...
February	...	29·893	−·030	...	88·4	+1·3	91	5 days	75·1	−0·9	71	4 days	82·2	...	75·1	...	·772	−·016	...	71	−1	...
March	...	29·856	−·034	...	89·2	−0·3	91	4 days	78·2	+0·6	74	5	83·5	...	76·3	...	·801	−·027	...	71	−1	...
April	...	29·829	−·005	...	90·3	−1·4	95	26	80·9	+1·1	76	16	85·8	...	78·3	...	·855	−·022	...	70	−1	...
May	...	29·826	+·018	...	91·6	+0·1	95	4 days	81·3	+0·7	77	12, 15	86·6	...	78·6	...	·880	−·034	...	69	−5	...
June	...	29·755	−·012	...	87·8	+0·5	95	2	78·4	+0·3	75	13, 29	84·4	...	79·9	...	·961	+·036	...	81	−1	...
July	...	29·777	−·011	...	85·8	+0·1	88	4 days	78·8	+1·4	75	5 days	82·9	...	79·4	...	·942	+·050	...	85	+2	...
August	...	29·828	+·005	...	86·0	+0·3	87	8 days	78·9	+1·5	75	14, 28	82·5	...	78·6	...	·935	+·055	...	83	+1	...
September	...	29·844	−·004	...	85·8	0	87	9 days	77·6	+0·4	74	8, 20	82·5	...	76·9	...	·851	−·013	...	77	−4	...
October	...	29·833	−·024	...	86·3	−0·1	91	6	77·2	+0·4	72	10, 20	81·9	...	77·0	...	·858	−·010	...	79	−1	...
November	...	29·898	+·018	...	88·0	+1·5	93	29	74·9	−0·6	69	10, 11, 15	82·9	...	74·9	...	·758	−·076	...	67	−9	...
December	...	29·910	+·002	...	88·5	+2·2	91	6, 27	73·8	−0·5	70	24, 26	82·9	...	74·6	...	·752	−·030	...	66	−6	...
Year	...	29·843	−·011	...	87·9	+0·4	95	IV, V, VI	77·6	+0·6	69	XI	83·4	...	77·1	...	·848	−·004	...	74	−2	...
GYANTSE (Tibet)	13,110																					
January	...	18·266	...	...	45·1	...	57	20	12·1	...	3	25	22·4	...	22·1	...	·115	...	...	95	...	...
February	...	18·345	...	...	41·8	...	51	27, 28	13·3	...	2	2, 6	23·0	...	21·7	...	·108	...	...	85	...	...
March	...	18·380	...	...	51·1	...	65	31	20·0	...	15	3, 9, 17	32·4	...	31·6	...	·172	...	...	92	...	...
April	...	18·415	...	...	57·1	...	65	1	(b) 28·6	...	19	17	40·6	...	40·1	...	·242	...	...	96	...	...
May	...	18·436	...	...	61·8	...	70	24	33·6	...	24	5	45·6	...	45·0	...	·294	...	...	97	...	...
June	...	18·446	...	...	67·4	...	76	26	41·1	...	33	17	49·5	...	45·3	...	·264	...	...	76	...	...
July	...	18·465	...	...	69·2	...	77	11, 18	45·7	...	40	6	51·8	...	48·7	...	·320	...	...	83	...	...
August	...	18·486	...	...	69·0	...	78	21	44·9	...	41	0, 7	52·2	...	46·0	...	·258	...	...	66	...	...
September	...	18·521	...	...	68·7	...	77	5	40·6	...	33	19	48·5	...	42·7	...	·224	...	...	65	...	...
October	...	18·522	...	...	63·2	...	78	14	31·1	...	22	31	41·8	...	35·1	...	·147	...	...	56	...	...
November	...	18·456	...	...	51·4	...	57	19, 24	20·5	...	14	16	29·8	...	28·1	...	·141	...	...	87	...	...
December	...	18·424	...	...	42·1	...	49	20, 21	10·0	...	0	30	18·3	...	17·4	...	·089	...	...	83	...	...
Year	...	18·430	...	...	57·3	...	78	VIII, X	28·5	...	0	XII	38·0	...	35·3	...	·198	...	...	82	...	...
KASHGAR* (Eastern Turkistan)	4,255																					
January	...	25·59	−·13	...	23·7	−10·4	30	31	11·3	−0·9	−5	24, 25	13·8	...	13·0	...	·071	−·016	...	84	+8	...
February (*f*)	...	25·50	−·16	...	42·4	−0·8	58	18, 27	23·0	+3·2	5	4 days	27·7	...	25·5	...	·115	+·012	...	78	+7	...
March	...	25·43	−·15	...	58·2	+0·7	74	23	35·3	+0·2	29	16, 17	40·1	...	34·6	...	·140	−·013	...	56	−1	...
April	...	25·34	−·19	...	70·8	−1·2	84	17	48·3	−0·2	36	14	55·5	...	47·2	...	·225	+·010	...	51	+4	...
May (*b*)	...	25·28	−·24	...	80·5	−1·5	94	27	54·2	−3·7	39	6	63·9	...	54·0	...	·302	−·008	...	51	+5	...
June	...	25·25	−·18	...	91·7	+1·9	99	16, 24, 25	63·7	−0·4	50	7	73·1	...	63·8	...	·485	+·094	...	59	+15	...
July	...	25·20	−·19	...	92·1	−0·4	100	6	65·6	−2·1	53	8	72·3	...	64·8	...	·529	+·067	...	66	+17	...
August	...	25·29	−·18	...	88·0	−2·5	101	15	63·0	−2·7	56	20	69·9	...	64·5	...	·552	+·088	...	74	+20	...
September	...	25·36	−·23	...	81·9	−1·9	91	1, 6, 14	54·5	−2·5	44	29	62·0	...	55·2	...	·352	+·009	...	63	+8	...
October	...	25·60	−·10	...	65·9	−5·0	77	6	38·3	−4·4	31	11	46·1	...	41·2	...	·199	−·007	...	64	+7	...
November	...	25·61	−·14	...	47·5	−5·8	61	1, 5	25·8	−2·7	16	28	31·2	...	28·9	...	·134	−·001	...	76	+9	...
December	...	25·52	−·25	...	37·9	+0·6	43	3, 4, 7	17·1	+0·4	11	29, 30	20·0	...	19·0	...	·095	+·013	...	87	+8	...
Year	...	25·41	−·18	...	65·1	−2·1	101	VIII	41·7	−1·3	−5	I	48·0	...	42·6	...	·267	+·021	...	67	+8	...

*Aneroid barometer in use.

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR EACH MONTH AND THE YEAR 1934.

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days. (0·10 or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																				Station and month.
											8 hrs. L. M. T.										17 hrs. I. S. T.										
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the month or year.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month or year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																															AMINI DIVI (Arabian Sea)
6·5	+2·8	...	3·82	+3·12	1·87	10	5	+3·9	4·6	+0·6	16	8	2	0	0	0	0	4	1	...	...	...	...	...	...	...	...	...	January
2·5	-1·0	...	0	-0·03	0	...	0	-0·3	4·1	-0·9	11	8	2	0	0	0	0	6	1	...	...	...	...	...	...	...	...	...	February
3·7	+0·6	...	0	-0·05	0	...	0	-0·1	5·6	+0·5	13	5	0	0	0	0	1	12	0	...	...	...	...	...	...	...	...	...	March
4·5	+0·3	...	0·02	-1·48	0·02	28	0	-1·7	5·9	+0·2	6	0	0	1	0	0	6	17	0	...	...	...	...	...	...	...	...	...	April
5·0	-0·6	...	0·45	-3·22	0·19	17	2	-2·7	6·9	-0·4	7	1	0	0	1	1	3	17	1	...	...	...	...	...	...	...	...	...	May
8·4	+0·6	...	11·56	-2·75	2·28	13	17	+0·5	11·4	-1·3	1	0	0	0	0	9	16	4	0	...	...	...	...	...	...	...	...	...	June
7·7	+0·1	...	7·62	-4·38	2·58	28	11	-4·7	14·5	+0·4	0	0	0	0	0	3	21	7	0	...	...	...	...	...	...	...	...	...	July
6·3	-0·7	...	3·03	-4·62	0·96	28	7	-4·4	11·7	-1·3	0	0	0	0	0	3	23	5	0	...	...	...	...	...	...	...	...	...	August
5·7	-0·6	...	3·05	-3·30	1·00	20	7	-3·5	11·4	+1·3	1	0	0	0	0	0	14	15	0	...	...	...	...	...	...	...	...	...	September
7·7	+1·6	...	5·04	-0·77	1·27	9	10	+1·3	5·7	-0·8	7	5	2	1	1	1	5	7	2	...	...	...	...	...	...	...	...	...	October
3·8	-1·0	...	1·21	-1·37	0·65	30	3	-1·2	4·2	+0·5	11	6	0	1	0	1	4	7	0	...	...	...	...	...	...	...	...	...	November
3·6	0	...	0·02	-1·25	0·02	2	0	-2·0	2·2	-1·2	9	17	2	0	1	0	0	2	0	...	...	...	...	...	...	...	...	...	December
5·5	+0·2	...	35·82	-20·15	2·58	VII	62	-14·9	7·3	-0·2	82	50	8	3	3	18	93	103	5	...	...	...	...	...	...	...	...	...	*Year*
																															GYANTSE (Tibet)
1·5	...	...	0	...	0	...	0	...	7·5	...	0	0	3	0	9	0	1	0	18	...	...	...	...	...	...	...	...	...	January
2·8	...	...	0·05	...	0·05	17	0	...	5·0	...	0	0	1	0	5	0	1	0	21	...	...	...	...	...	...	...	...	...	February
0·7	...	...	0	...	0	...	0	...	7·6	...	0	0	1	0	9	0	0	0	21	...	...	...	...	...	...	...	...	...	March
1·8	...	...	0	...	0	...	0	...	6·9	...	1	0	1	1	6	0	1	0	20	...	...	...	...	...	...	...	...	...	April
3·3	...	...	0·55	...	0·23	27	1	...	4·8	...	0	0	1	3	7	0	0	0	20	...	...	...	...	...	...	...	...	...	May
6·3	...	...	4·69	...	1·15	17	10	...	3·6	...	1	0	0	1	4	0	0	0	24	...	...	...	...	...	...	...	...	...	June
8·1	...	...	3·02	...	0·96	22	7	...	2·8	...	0	0	0	2	3	0	1	1	24	...	...	...	...	...	...	...	...	...	July
7·3	...	...	2·63	...	0·55	3, 6	8	...	2·9	...	1	0	0	5	1	0	0	2	22	...	...	...	...	...	...	...	...	...	August
5·1	...	...	2·55	...	1·11	17	7	...	2·7	...	0	0	0	6	2	0	1	0	21	...	...	...	...	...	...	...	...	...	September
1·1	...	...	0·02	...	0·02	17	0	...	3·9	...	1	0	0	17	1	1	1	0	10	...	...	...	...	...	...	...	...	...	October
1·4	...	...	0	...	0	...	0	...	4·2	...	0	0	0	7	0	1	1	0	21	...	...	...	...	...	...	...	...	...	November
2·3	...	...	0·08	...	0·05	9	0	...	3·4	...	0	0	0	9	5	0	0	0	17	...	...	...	...	...	...	...	...	...	December
3·5	...	...	14·49	...	1·15	VI	33	...	4·6	...	4	0	7	51	52	2	7	3	239	...	...	...	...	...	...	...	...	...	*Year*
																															KASHGAR* (Eastern Turkistan)
3·4	+3·3	...	0	-0·17	0	...	0	-0·8	1·2	+0·7	1	3	0	0	0	1	0	2	23	...	...	...	...	...	...	...	...	...	January
6·3	+1·7	...	0·40	+0·23	0·40	14	1	+0·5	1·6	+0·8	0	0	1	1	1	6	1	15	...	...	...	...	...	...	...	...	...	...	February
4·2	-0·6	...	0	-0·31	0	...	0	-0·7	2·5	+0·9	0	3	2	0	0	1	4	2	19	...	...	...	...	...	...	...	...	...	March
4·0	-0·6	...	0	-0·24	0	...	0	-0·9	2·5	+0·2	1	2	1	0	0	0	3	7	16	...	...	...	...	...	...	...	...	...	April
5·9	+2·6	...	0·27	-0·38	0·18	29	1	-0·2	2·7	+0·2	1	1	1	0	0	0	2	4	20	...	...	...	...	...	...	...	...	...	May
4·1	+1·7	...	0·06	-0·21	0·06	5	0	-0·8	2·5	-0·4	0	2	0	1	0	0	2	3	22	...	...	...	...	...	...	...	...	...	June
4·0	+1·2	...	1·83	+1·59	0·75	17	5	+4·2	2·4	-0·4	2	2	0	0	0	0	0	2	25	...	...	...	...	...	...	...	...	...	July
4·6	+1·1	...	0·89	+0·36	0·50	3	2	+0·4	1·6	-0·4	1	2	2	1	1	0	2	1	21	...	...	...	...	...	...	...	...	...	August
2·5	0	...	0	-0·27	0	...	0	-0·7	1·6	+0·2	4	2	0	0	2	0	2	2	18	...	...	...	...	...	...	...	...	...	September
3·8	+1·5	...	0·45	+0·43	0·42	10	1	+0·9	1·2	+0·2	1	3	0	0	0	0	1	1	25	...	...	...	...	...	...	...	...	...	October
4·3	+1·6	...	0	-0·15	0	...	0	-1·1	0·9	+0·3	2	3	1	0	0	0	0	0	24	...	...	...	...	...	...	...	...	...	November
5·5	+1·2	...	0	-0·11	0	...	0	-0·4	0·2	-0·3	1	0	0	0	0	0	0	0	30	...	...	...	...	...	...	...	...	...	December
4·8	+1·2	...	3·90	+0·74	0·75	VII	10	+0·4	1·7	+0·1	14	23	8	3	4	3	22	25	258	...	...	...	...	...	...	...	...	...	*Year*

(*b*) Mean of 29 days (*f*) Mean of 26 days.

TABLE II-A.—ABSTRACT OF OBSERVATIONS RECORDED AT

Station.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure inches.			Relative humidity %		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean. 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Kabul (Afghanistan)	5,955																					
January	...	24·258	...	...	35·2	...	46	1, 2	17·6	...	6	13, 19	23·2	...	20·6	...	·086	...	...	68	...	...
February	...	24·316	...	...	56·0	...	74	13	32·2	...	13	2	41·2	...	35·0	...	·133	...	...	52	...	...
March	...	24·284	...	...	55·3	...	65	24	35·5	...	28	14	45·2	...	38·8	...	·161	...	...	54	...	...
April	...	24·202	...	...	66·3	...	76	21	43·1	...	35	25	58·1	...	48·1	...	·222	...	...	46	...	...
May	...	24·234	...	...	70·3	...	84	27	47·3	...	34	5	62·2	...	52·5	...	·283	...	...	52	...	...
June	...	24·144	...	...	86·2	...	97	23	57·1	...	50	3	77·2	...	61·1	...	·351	...	...	38	...	...
July	...	24·080	...	...	91·7	...	98	3, 25	60·1	...	51	9	81·9	...	61·7	...	·314	...	...	30	...	...
August	...	24·126	...	...	91·3	...	96	1, 10	57·9	...	51	24	79·7	...	62·3	...	·359	...	...	35	...	...
September	...	24·225	...	...	82·3	...	92	6, 18	51·9	...	44	29	67·3	...	57·3	...	·355	...	...	53	...	...
October	...	24·357	...	...	72·2	...	86	3	39·4	...	31	11	53·4	...	40·1	...	·097	...	...	24	...	...
November	...	24·368	...	...	57·8	...	69	3, 4	32·0	...	24	20, 26	41·4	...	34·3	...	·118	...	...	45	...	...
December	...	24·358	...	...	46·5	...	66	1	30·1	...	22	30	33·2	...	31·6	...	·100	...	...	85	...	...
Year	...	24·251	...	...	67·0	...	98	VII	42·0	...	6	I	55·3	...	45·3		·220	...	...	49	...	...
Hinaldi * (Baghdad) (IRAQ)	109																					
January	...	30·177	...	...	54·9	...	67	5	36·1	...	30	29	40·9	...	38·6	...	·204	...	...	78	...	...
February	...	30·077	...	...	61·2	...	69	15	40·1	...	30	25	47·3	...	44·1	...	·248	...	...	77	...	...
March	...	29·973	...	...	76·5	...	86	28	48·5	...	33	1	59·3	...	50·6	...	·261	...	...	51	...	...
April	...	29·850	...	...	85·2	...	97	18, 25	58·1	...	51	8, 10	71·5	...	60·2	...	·364	...	...	47	...	...
May	...	29·813	...	...	92·7	...	104	31	65·9	...	60	1, 17	80·4	...	65·4	...	·416	...	...	41	...	...
June	...	29·640	...	...	105·4	...	113	16	75·1	...	68	1, 3	90·6	...	65·9	...	·310	...	...	22	...	...
July	...	29·560	...	...	109·7	...	116	19	77·2	...	72	16	92·5	...	67·5	...	·325	...	...	22	...	...
August	...	29·546	...	...	109·6	...	116	1, 2	76·0	...	67	23	91·1	...	66·3	...	·303	...	...	21	...	...
September	...	29·736	...	...	105·0	...	113	6, 8, 9	69·7	...	60	15	86·2	...	62·6	...	·261	...	...	21	...	...
October	...	29·950	...	...	93·8	...	98	7, 8	60·7	...	54	16	75·9	...	58·6	...	·266	...	...	29	...	...
November	...	30·063	...	...	77·1	...	89	3	50·8	...	41	30	61·3	...	52·2	...	·268	...	...	50	...	...
December	...	30·100	...	...	62·0	...	65	6 days	41·7	...	30	11	48·0	...	45·5	...	·266	...	...	81	...	...
Year	...	29·869	...	...	86·1	...	116	VII, VIII	58·3	...	30	I, II, XII	70·4	...	56·5	...	·291	...	...	45	...	...
Abadan * 9 hrs. (L. M. T.) (PERSIA—IRAN)	10																					
January	...	30·20	...	...	60·0	...	70	5	48·0	...	30	28	48·7	...	45·5	...	·259	...	...	78	...	...
February	...	30·09	...	...	66·0	...	75	16, 21	48·1	...	35	25, 26	55·6	...	50·3	...	·287	...	...	65	...	...
March	...	29·98	...	...	78·8	...	85	21, 22	53·3	...	39	1	65·9	...	55·9	...	·315	...	...	49	...	...
April	...	29·88	...	...	87·3	...	97	26, 27	64·7	...	55	11	77·9	...	64·0	...	·408	...	...	43	...	...
May	...	29·80	...	...	95·6	...	108	27	73·2	...	64	5	86·9	...	67·6	...	·422	...	...	32	...	...
June	...	29·57	...	...	106·9	...	115	16	79·7	...	74	21	96·3	...	68·9	...	·338	...	...	20	...	...
July	...	29·47	...	...	110·2	...	117	20, 31	81·6	...	77	5 days	97·3	...	69·2	...	·331	...	...	19	...	...
August	...	29·52	...	...	110·4	...	117	1, 2, 3	79·0	...	71	31	96·8	...	69·1	...	·338	...	...	20	...	...
September	...	29·73	...	...	107·7	...	114	4	72·7	...	65	26	90·3	...	67·7	...	·382	...	...	27	...	...
October	...	29·97	...	...	96·1	...	105	1	63·5	...	58	11	81·0	...	64·6	...	·395	...	...	37	...	...
November	...	30·09	...	...	79·5	...	94	3	57·3	...	48	22, 23	67·3	...	59·9	...	·417	...	...	62	...	...
December	...	30·11	...	...	64·0	...	73	21	48·8	...	41	15	54·8	...	52·0	...	·348	...	...	80	...	...
Year	...	29·87	...	...	88·4	...	117	VII, VIII	63·5	...	30	I	76·7	...	61·2	...	·353	...	...	44	...	...

Pressure reduced to M. S. L

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR EACH MONTH AND THE YEAR 1934.

Cloud amount, (tenths of sky.)			Rainfall, inches.				Number of rainy days. (0·10″ or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																	Station and month.
											8 hrs. L. M. T.									17 hrs. I. S. T.									
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the month or year.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month or year.	Departure from normal.	Mean	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Kabul (Afghanistan)
4·3	...	...	0·31	...	0·12	11	1	...	1·7	...	0	0	2	1	12	12	2	2	0	...	...	...	...	...	...	...	...	...	January
3·5	...	...	0·11	...	0·03	15,24,25	0	...	0·9	...	0	1	1	0	11	12	2	1	0	...	...	...	...	...	...	...	...	...	February
4·5	...	...	2·57	...	0·67	30	7	...	0·8	...	3	2	1	2	10	7	3	2	1	...	...	...	...	...	...	...	...	...	March
3·2	...	...	2·20	...	0·43	10	9	...	0·6	...	4	1	1	2	11	9	0	2	0	...	...	...	...	...	...	...	...	...	April
3·3	...	...	2·83	...	0·67	9	6	...	0·6	...	5	5	2	4	10	5	0	0	0	...	...	...	...	...	...	...	...	...	May
1·3	...	...	0·13	...	0·06	9	0	...	0·6	...	7	4	2	2	7	5	0	3	0	...	...	...	...	...	...	...	...	...	June
0·3	...	...	0·05	...	0·05	26	0	...	0·9	...	7	7	5	3	4	1	0	4	0	...	...	...	...	...	...	...	...	...	July
0·4	...	...	0	...	0	...	0	...	1·0	...	3	8	3	3	4	5	1	4	0	...	...	...	...	...	...	...	...	...	August
0·2	...	...	0	...	0	...	0	...	0·7	...	1	3	0	5	10	10	1	0	0	...	...	...	...	...	...	...	...	...	September
0·5	...	...	0	...	0	...	0	...	0·9	...	1	0	0	0	13	14	2	1	0	...	...	...	...	...	...	...	...	...	October
2·7	...	...	0·66	...	0·60	16	1	...	0·5	...	1	1	0	2	10	8	6	2	0	...	...	...	...	...	...	...	...	...	November
6·7	...	...	1·01	...	0·39	12	3	...	0·6	...	2	1	0	2	8	9	4	1	4	...	...	...	...	...	...	...	...	...	December
2·6	...	...	9·87	...	0·67	III, V	27	...	0·8	...	34	33	17	26	110	97	21	22	5	...	...	...	...	...	...	...	...	...	*Year*
																													Hinaidi * (Baghdad) (IRAQ)
3·9	...	...	3·11	...	1·15	11	4	...	...	...	0	2	2	4	1	3	8	9	2	...	...	...	...	...	...	...	...	...	January
4·1	...	...	1·33	...	0·70	6	3	...	...	..	0	0	3	4	3	3	8	6	1	...	...	...	...	...	...	...	...	...	February
3·1	...	...	0·01	...	0·01	30	0	...	...	...	7	2	1	5	0	2	11	1	1	...	...	...	...	...	...	...	...	...	March
3·3	...	...	0·33	...	0·13	2	1	...	...	...	1	0	0	9	2	2	7	9	0	...	...	...	...	...	...	...	...	...	April
4·2	...	...	0·65	...	0·47	3	1	...	...	...	4	2	5	2	1	1	11	5	0	...	...	...	...	...	...	...	...	...	May
0·8	...	...	0·02	...	0·02	1	0	...	...	...	5	1	0	0	0	0	5	19	0	...	...	...	...	...	...	...	...	...	June
0·1	...	...	0	...	0	...	0	...	...	...	2	2	0	0	0	1	3	23	0	...	...	...	...	...	...	...	...	...	July
0	...	...	0	...	0	...	0	...	...	...	5	0	0	0	0	0	4	22	0	...	...	...	...	...	...	...	...	...	August
0·3	...	...	0	...	0	...	0	...	...	...	8	4	0	1	1	0	4	12	0	...	...	...	...	...	...	...	...	...	September
2·8	...	...	0	...	0	...	0	...	...	...	5	3	3	4	2	0	3	9	2	...	...	...	...	...	...	...	...	...	October
4·0	...	...	0·02	...	0·01	29	0	...	...	...	6	0	1	6	1	2	3	9	2	...	...	...	...	...	...	...	...	...	November
5·5	...	...	1·27	...	0·64	20	3	...	...	...	5	2	0	7	0	1	5	6	5	...	...	...	...	...	...	...	...	...	December
2·7	...	...	6·74	...	1·15	I	12	...	...	...	48	18	15	42	11	15	63	140	18	...	...	...	...	...	...	...	...	...	*Year*
																													Abadan* 9 hrs. (L.M.T.) (PERSIA—IRAN)
4·8	...	...	1·53	...	0·44	16	4	...	6·0	...	1	2	2	1	1	3	10	8	3	...	...	...	...	...	...	...	...	...	January
4·0	...	...	1·48	...	0·65	8	3	...	(c) 8·4	...	3	6	1	4	0	1	6	7	0	...	...	...	...	...	...	...	...	...	February
2·9	...	...	0·05	...	0·04	30	0	...	7·1	...	1	2	2	5	3	3	10	4	1	...	...	...	...	...	...	...	...	...	March
3·1	...	...	1·26	...	0·80	15	3	...	8·3	...	3	2	5	2	4	4	5	4	1	...	...	...	...	...	...	...	...	...	April
3·5	...	...	0·34	...	0·18	4	1	...	7·4	...	4	5	1	2	3	2	4	7	3	...	...	...	...	...	...	...	...	...	May
0	...	...	0	...	0	...	0	...	13·6	...	1	0	0	2	0	0	13	13	1	...	...	...	...	...	...	...	...	...	June
0·3	...	...	0	...	0	...	0	...	11·2	...	3	0	0	0	2	2	15	9	0	...	...	...	...	...	...	...	...	...	July
0	...	...	0	...	0	...	0	...	10·3	...	0	0	0	0	1	2	8	20	0	...	...	...	...	...	...	...	...	...	August
0	...	...	0	...	0	...	0	...	6·5	...	1	1	0	1	2	5	11	6	3	...	...	...	...	...	...	...	...	...	September
1·1	...	...	0	...	0	...	0	...	5·7	...	1	2	0	0	0	10	6	12	0	...	...	...	...	...	...	...	...	...	October
2·8	...	...	2·06	...	1·00	9	2	...	5·7	...	3	6	0	3	0	3	3	12	0	...	...	...	...	...	...	...	...	...	November
3·7	...	...	4·06	...	2·16	8	7	...	5·3	...	1	3	3	4	0	1	2	16	1	...	...	...	...	...	...	...	...	...	December
2·2	...	...	10·78	...	2·16	XII	20	...	8·0	...	22	29	14	24	16	36	93	118	13	...	...	...	...	...	...	...	...	...	*Year*

(c) Mean of 27 days.

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure inches.			Relative humidity. %		
		Mean 4 hrs.	Departure from normal.	Mean 12 hrs.	Mean.	Departure from normal.	Highest during the year.	Date.	Mean.	Departure from normal.	Lowest during the year.	Date.	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Departure from normal.	Mean 12 hrs.	Mean 4 hrs.	Departure from normal.	Mean 12 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sind																						
←Drigh Road (Karachi)	77	29·737	...	...	89·2	...	108	V	67·4	...	32	I	75·1	...	67·1	...	·598	...	...	63	...	...
aluchistan																						
Ormara . . .	15	29·797	...	...	85·5	...	104	IV, V	70·6	...	41	I	76·5	...	71·3	...	·729	...	...	76	...	...
Pasni . . .	19	29·807	...	...	86·9	+0·4	104	IV, V	68·4	+1·6	41	I	75·2	...	68·2	...	·628	...	...	68	...	...
Panjgur . . .	3,177	26·681	...	...	86·8	+1·5	113	VI	57·8	+0·8	21	I	66·7	...	57·8	...	·423	...	...	57	...	...
Gwadar . . .	22	29·780	...	...	86·3	...	104	V	70·6	...	42	I	76·4	...	71·7	...	·736	...	...	79	...	...
Persia (Iran)																						
Charbar . . .	25	29·802	...	...	85·6	...	100	V, IX	71·5	...	45	I	78·6	...	72·4	...	·733	...	...	72	...	...
Jask . . .	13	...	...	...	87·1	+0·4	103	VII	73·4	+0·2	48	I	...	...	70·9	...	...	...	...	...	...	...
Henjam . . .	100	29·717	...	...	84·7	...	103	VII	73·6	...	48	I	78·3	...	72·0	...	·733	...	...	72	...	...
Bushire . . .	14	29·803	...	...	...	...	...	...	...	...	...	...	72·5	...	66·2	...	·594	...	...	70	...	...
Ispahan . . .	5,817	24·27*	...	...	71·4	—2·2	104	VII, VIII	45·4	-0·6	2	I	52·9	...	44·1	...	·230	...	...	56	...	...
Tehran . . .	4,002	25·98*	...	...	69·7	—3·2	101	VII	48·5	-2·0	13	I	57·8	...	47·9	...	·257	...	...	53	...	...
Meshed . . .	3,104	26·019	...	...	69·3	—0·4	99	VIII	41·9	-1·7	2	I	49·7	...	44·4	..	·264	...	...	70	...	...
Seistan . . .	2,000	28·256	...	28·160	...	...	...	...	55·8	-0·2	19	I	63·6	80·4	54·2	62·4	·336	...	·372	57	...	36
Arabia																						
Bahrein . . .	8	29·837	...	...	84·5	+1·3	113	VIII	71·6	-0·5	46	I	75·7	..	71·7	...	·751	...	..	82	...	...
Baitul Falaj (Muscat)	72	29·753	...	..	91·5	...	115	VI	73·3	...	50	I, II	80·5	...	69·2	...	·586	...	...	55	...	...
Sharjah . . .	10	29·817	...	...	88·0	...	110	VII	67·3	...	37	I	74·2	...	67·9	...	·632	...	...	72	...	...

* Aneroid.
† Morning observations are recorded at 3 hrs. 32 mins. (G.M.T.)

AT 4 AND 12‡ HRS. (G. M. T.) FOR THE YEAR 1934.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days. (0·10 or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION.
											4 hrs.									12 hrs.								
Mean 4 hrs.	Departure from normal.	Mean 12 hrs.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Sind
4·5	...	...	7·17	...	3·71	VII	11	...	9·5	...	53	60	9	4	6	49	137	25	28	...	...	...	...	...	...	...	...	...	Drigh Road (Karachi).†
																													Baluchistan
4·1	...	...	2·15	...	0·62	XII	8	...	...	...	15	42	35	14	20	69	90	22	58	...	...	...	...	...	...	...	...	...	Ormara.
4·1	...	...	2·74	−3·40	0·88	XII	8	−0·2	...	...	31	19	25	27	13	46	77	60	66	...	...	...	...	...	...	...	...	...	Pasni.
1·7	...	...	5·26	+0·57	1·03	XII	16	+6·6	...	...	23	136	79	3	8	35	23	28	32	...	...	...	...	...	...	...	...	...	Panjgur.
4·3	...	...	5·58	...	3·10	XII	5	...	6·7	...	26	18	47	39	17	51	84	38	45	...	...	...	...	...	...	...	...	...	Gwadar.
																													Persia (Iran)
2·4	...	...	1·81	...	0·50	III	5	...	6·4	...	15	56	77	46	22	13	39	61	26	...	...	...	...	...	...	...	...	...	Charbar.
2·8	...	...	8·60	+4·09	3·20	III	12	+2·8	...	...	42	41	126	23	0	2	44	54	33	...	...	...	...	...	...	...	...	...	Jask.
2·2	...	...	3·75	...	1·56	XII	6	...	5·8	...	61	80	43	7	8	65	13	26	60	...	...	...	...	...	...	...	...	...	Henjam.
1·9	...	...	12·51	+1·83	3·24	XII	25	+6·8	8·9	+3·1	81	81	36	31	15	2	5	59	55	...	...	...	...	...	...	...	...	...	Bushire.
2·1	...	...	4·37	−0·14	0·73	V	7	+3·9	2·6	+0·4	17	6	3	6	2	39	27	51	214	...	...	...	...	...	...	...	...	...	Ispahan.
2·5	...	...	12·85	+3·38	1·16	II	31	+3·6	2·1	−0·3	19	17	3	11	7	7	4	3	294	...	...	...	...	...	...	...	...	...	Tehran.
3·6	...	...	17·21	+1·99	1·26	I	31	+7·4	1·6	+0·3	1	2	1	42	0	0	5	11	303	...	...	...	...	...	...	...	...	...	Meshed.
1·5	...	1·7	0·74	−1·28	0·20	I	3	−4·1	7·9	−0·4	148	16	5	4	3	3	12	146	28	140	23	13	5	2	4	8	117	53	Seistan.
																													Arabia
2·7	...	...	3·13	+0·15	1·01	III	7	0	8·6	...	48	11	8	14	4	15	74	61	130	...	...	...	...	...	...	...	...	...	Bahrein.
2·1	...	...	3·59	...	0·75	XII	7	...	4·8	...	8	15	11	7	17	3	58	18	228	...	...	...	...	...	...	...	...	...	Baitul Falaj (Muscat).
1·7	...	...	4·09	...	0·89	XII	9	...	5·8	...	3	17	32	103	138	15	15	4	38	...	...	...	...	...	...	...	...	...	Sharjah.

Except at Seistan the afternoon observations were recorded at 14 hrs. G. M. T. during the first half of the year and at 12 hrs (G. M. T.) during the second half; hence no annual means are available.

TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. (L. M. T.) AT 4TH CLASS STATIONS FOR THE YEAR 1934.

STATION.	Maximum temperature °F. Mean.	Departure from normal.	Highest during the year.	Month.	Minimum temperature °F. Mean.	Departure from normal.	Lowest during the year.	Month.	Mean dry bulb temperature 8 hrs. L. M. T. °F.	Mean wet bulb temperature 8 hrs. L. M. T. °F.	Vapour pressure, inches. Mean 8 hrs. L. M. T.	Departure from normal.	Relative humidity, %. Mean 8 hrs. L. M. T.	Departure from normal.	Mean cloud amount, 8 hrs. L. M. T.	Rainfall, inches. Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Number of rainy days, 0·10" or more. Total in the year.	Departure from normal.	Wind. Resultant direction 8 hrs. L. M. T.	Velocity in miles per hour.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Assam																							
Lumding	82·0	−2·5	98	III	65·4	+0·9	39	I	70·0	68·1	·692	+·022	91	+2	...	66·27	+15·15	5·25	VI	76	−9·5	...	...
Messa (Salons)	85·7	−2·4	98	III	55·3	+2·4	43	I	70·6	68·3	·690	−·007	88	+10	...	98·01	+14·91	3·29	VII	119	+2·7	...	...
Bengal																							
Brahmanbaria	87·0	+0·1	100	IV	67·5	−0·1	45	I	75·3	71·1	·729	−·010	81	+1	...	90·58	+8·14	5·28		108	+8·9	...	...
Goalundo	87·2	+0·4	106	VIII	68·1	+0·8	38	I	76·0	72·2	·769	+·020	82	+2	...	55·63	−12·45	5·35		70	−21·8	...	...
Pabna	88·2	−0·5	107	V	69·0	+1·2	41	I	75·0	71·8	·770	+·019	85	+4	...	58·79	−2·17	5·26		96	+12·0	...	...
Punjab East and North																							
Gurdaspur	87·2	...	114	VI	60·8	...	30	I	69·4	61·1	·470	...	63	...	4·1	18·54	...	3·10	VIII	73	...	...	...
Kashmir																							
Jammu	85·5	+0·7	115	VI	66·5	+1·4	40	I, II	70·8	60·5	·426	−·048	53	−6	3·5	43·71	+0·77	2·99	VII	52	+1·2	...	...
Kargil†	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
N.-W. F. Province																							
Bannu	87·8	...	116	VI	62·6	...	32	I, II	72·5	60·8	·428	...	48	...	2·1	13·41	...	4·00	VII	20	...	...	...
Razmak	67·1	...	94	VI	47·2	...	16	I	53·4	44·0	·219	...	49	...	2·2	24·54	...	1·97	VI	53	...	...	...
Wana	77·3	...	105	VI	49·3	...	12	I	58·6	48·4	·269	...	49	...	1·7	7·85	...	0·68	VII	26	...	...	1·7
Bombay Deccan																							
Panchgani	76·5	...	94	V	61·7	...	48	I, II	68·7	60·1	·425	...	63	...	4·2	62·05	...	4·20	XI	98	...	...	8·8
Hyderabad, North																							
Bidar	87·8	−0·9	107	V	68·7	+0·7	54	I	75·2	64·2	·467	−·116	55	−10	4·4	32·53	−5.22	5·53	VIII	45	−9·4	...	7·9
Mysore																							
Jogimatti	...	...	...	...	...	...	...	...	69·5	64·5	·549	...	77	...	4·2	26·85	...	2·98	X	47	...	...	8·9
Tibet																							
Yatung (Chumbi)	58·0	+2·7	70	VIII	34·6	−1·8	15	XII	40·9	39·7	·256	−·001	92	+6	5·3	31·62	−11·28	1·49	X	103	−2·6	...	...
Persia (Iran)																							
*Zahidan	...	...	...	...	47·5	...	20	I, II	65·2	57·5	·416	...	63	...	1·3	1·72	...	0·70	XII	7	...	...	...

* Records observations at 7 hrs. (L. M. T.). † Data not available for the complete year, hence no annual means.

TABLE V.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. (L. M. T.) AT 5TH CLASS STATIONS FOR THE YEAR 1934.

DIVISION.	STATION.	Rainfall, inches. Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Number of rainy days, (0·10" or more). Total in the year.	Departure from normal.
1	2	3	4	5	6	7	8
Bengal	Bankura	39·93	−17·07	4·08	VI	64	−10·3
	Rampur Boalia	34·56	−21·54	2·38	IX	63	−11·6
	Sirajganj	62·05	−2·34	5·70	VI	89	+6·2
	Rangpur	76·67	−5·36	3·29	VII	89	+5·8
	Cooch Behar	125·29	−11·72	4·25	X	125	+20·1
Bihar	Muzaffarpur	54·10	+5·25	5·06	IX	60	+3·1
	Chapra	46·88	+2·46	9·17	VII	58	+4·3
	Arrah	39·57	−6·05	4·62	VII	49	−7·3
	Dehri	36·72	−5·75	2·82	IX	54	−0·8
United Provinces, West	Meerut	32·13	+0·17	6·16	VIII	42	+3·5
Punjab, East and North	Dharampore	56·02	...	2·97	VII	81	...
	Kailang	16·30	−6·81	1·50	IV	54	+4·8
	Dalhousie	83·46	−1·04	6·00	VII	91	+3·1
	Bakloh	102·15	...	6·20	VII	81	...
Kashmir	Sonamarg	68·31	−3·08	3·27	I	116	+10·5
	Gurez	34·65	...	1·45	III	85	...
Baluchistan	Harnai	13·41	+0·07	1·70	VII	26	+2·1
	Pishin	6·98	−1·76	1·02	XII	19	−1·5
Rajputana, East	Udaipur	28·82	+5·04	4·30	VIII	34	+1·3
Bombay, Deccan	Khandala	174·27	...	7·49	VI	114	...
Hyderabad, North	Parbhani	43·04	+10·07	5·50	VIII	48	−1·7
Madras, Southeast	Palamcottah	24·84	−3·50	2·65	I	27	−14·3
Madras Deccan	Anantapur	9·18	−15·86	2·45	VII	21	+14·1
Sikkim	Gnatong	136·80	−10·68	3·10	VII	200	+18·1
	Lachung	60·23	−4·70	2·10	IV, V	150	−11·1

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 10 HRS. (L. M.T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1934.

Station, height of bar. cistern above mean sea level in feet and month.	Pressure reduced to 32° F and standard gravity inches.			Temperature of air °F.			Wet bulb temperature T.		Vapour pressure, inches.				Relative humidity				Cloud amount.	Wind direction at 10 hrs. Number of winds from—								
	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs. (L. M. T.)	From minimum.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L. M. T.)	N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Calcutta (21)																										
January	30·001	29·924	−·039	69·3	65·6	+0·4	58·9	60·6	·397	·422	·417	−·014	87	58	69	−1	2·0	6	8	2	0	1	4	0	6	4
February	29·922	29·840	−·062	74·3	71·8	+1·5	59·2	65·5	·492	·529	·496	+·011	85	60	65	−1	1·9	0	0	1	3	5	8	2	7	2
March	29·849	29·770	−·031	85·4	81·8	+2·5	65·2	71·5	·535	·597	·561	−·082	74	49	54	−13	0·6	4	1	2	0	3	9	3	8	1
April	29·780	29·665	−·031	88·9	85·9	+0·9	73·3	70·6	·789	·885	·843	+·046	83	65	71	+1	2·4	0	0	0	1	10	15	3	1	0
May	29·553	29·595	−·011	90·5	88·0	+2·3	76·9	83·5	·899	1·050	1·012	+·140	89	74	80	+5	3·8	0	0	0	0	16	13	1	0	1
June	29·569	29·528	+·031	87·4	85·2	+0·7	77·0	82·1	·898	1·026	·967	−·004	89	79	83	0	7·6	0	2	3	5	9	9	0	0	2
July	29·508	29·473	−·012	86·1	84·5	+1·5	78·0	81·4	·943	1·006	·990	+·019	93	81	87	0	8·3	1	1	5	4	8	9	1	2	0
August	29·565	29·518	−·018	84·9	83·5	+1·1	77·5	80·8	·922	·994	·972	+·005	94	83	87	−1	8·5	1	2	8	8	3	6	1	2	0
September	29·641	29·589	−·048	85·1	84·0	+1·4	77·9	80·5	·955	·984	·980	+·028	94	82	88	+2	8·0	1	1	3	11	3	5	1	3	2
October	29·846	29·791	+·006	84·2	81·1	+1·1	73·8	76·7	·816	·825	·825	+·009	92	70	81	−1	4·6	6	7	1	1	2	4	2	7	1
November	29·940	29·886	−·023	76·7	72·4	0	62·4	67·7	·553	·561	·560	−·018	90	61	75	+1	3·0	7	5	2	0	0	2	5	7	2
December	30·058	29·989	+·016	72·0	67·4	+2·1	57·6	64·2	·460	·497	·485	+·047	92	63	75	+4	1·6	7	11	3	3	2	0	0	3	2
Year	29·774	29·714	−·018	82·1	79·3	+1·3	69·4	74·5	·727	·781	·760	+·010	89	69	76	−1	4·4	33	38	30	36	62	84	19	46	17
Agra (554)																										
January	29·464	29·391	−·047	60·5	54·8	−5·3	...	50·6	...	·237	·236	−·072	...	47	53	−8	1·7	3	4	4	2	1	2	5	8	2
February	29·375	29·303	−·070	70·3	64·0	−0·8	...	55·4	...	·240	·238	−·065	...	32	38	−14	0·6	0	0	3	2	3	4	7	7	2
March	29·342	29·276	+·002	77·6	70·3	−6·4	...	59·8	...	·276	·268	−·069	...	32	38	−2	1·7	2	2	2	3	0	5	6	8	3
April	29·169	29·102	−·041	92·0	83·2	−4·9	...	64·3	...	·231	·212	−·157	...	16	22	−7	1·0	1	0	0	1	0	8	8	12	0
May	29·094	29·038	+·005	97·6	91·0	−3·0	...	67·8	...	·279	·259	−·220	...	15	20	−13	0·5	2	1	1	0	0	7	8	12	0
June	28·970	28·911	−·009	94·3	90·3	−3·1	...	76·7	...	·696	·666	−·038	...	46	50	+2	3·3	1	1	6	4	2	5	5	6	0
July	28·944	28·896	−·012	88·2	85·7	−0·3	...	77·7	...	·806	·819	−·108	...	66	70	−6	6·3	1	2	4	4	0	6	8	6	0
August	29·004	28·953	−·019	84·6	82·5	−1·7	...	79·7	...	·945	·940	+·027	...	80	84	+6	7·5	3	4	9	4	1	2	2	2	4
September	29·114	29·056	−·039	86·6	82·6	−1·6	...	77·9	...	·836	·835	+·021	...	67	72	+2	4·3	3	5	1	4	1	4	6	2	4
October	29·324	29·264	−·009	80·1	72·6	−6·8	...	63·9	...	·296	·282	−·208	...	23	33	−18	0·1	1	1	2	0	1	6	4	13	3
November	29·420	29·358	−·037	76·4	63·7	−5·0	...	57·5	...	·222	·214	−·129	...	25	36	−13	0·9	0	0	0	0	1	5	10	12	2
December	29·524	29·460	0	66·2	60·1	−1·1	...	56·2	...	·318	·332	+·031	...	53	64	+7	3·5	4	5	0	4	5	4	0	8	1
Year	29·229	29·167	−·024	81·7	75·1	−3·3	...	65·6	...	·449	·442	−·082	...	42	48	−6	2·6	21	25	32	28	15	58	69	96	21
Lahore (702)																										
January	29·326	29·271	−·020	54·5	49·1	−3·4	...	7·8	...	·248	·221	−·048	...	58	61	−9	2·8	3	1	0	1	2	0	2	4	18
February	29·216	29·159	−·087	67·1	62·4	+5·6	...	56·1	...	·315	·290	+·003	...	45	50	−12	2·5	2	1	2	4	2	1	4	4	8
March	29·213	29·165	+·033	72·9	65·9	−1·0	...	60·3	...	·359	·339	−·021	...	46	52	−2	4·4	7	2	4	1	0	0	2	1	14
April	29·033	28·983	−·017	87·2	79·5	−0·1	...	65·7	...	·347	·350	−·045	...	28	36	−5	4·5	8	5	2	0	1	0	2	3	9
May	28·973	28·925	+·055	94·2	86·6	−0·8	...	68·5	...	·356	·345	−·109	...	23	30	−6	1·9	9	6	1	3	1	1	2	5	3
June	28·811	28·748	+·010	97·3	92·3	+0·6	..	75·9	...	·611	·608	−·019	...	37	42	−2	2·2	2	1	3	6	2	2	1	5	8
July	28·773	28·727	−·006	92·1	89·7	+1·5	...	80·6	...	·890	·881	+·018	...	60	63	−2	2·9	0	0	2	7	3	2	2	6	9
August	28·880	28·818	+·019	88·3	86·2	−0·2	...	81·0	...	·960	·990	+·106	...	73	79	+8	5·9	4	2	3	9	3	0	0	0	10
September	28·963	28·902	−·035	92·3	87·0	+2·9	...	76·2	...	·691	·666	−·052	...	46	51	−10	0·7	0	1	1	0	3	0	0	13	12
October	29·180	29·123	+·009	84·5	74·2	−0·8	...	63·7	...	·316	·327	−·118	...	27	41	−11	0·3	0	2	1	3	1	2	0	4	18
November	29·285	29·229	−·022	72·0	62·4	−0·1	...	57·0	...	·270	·264	−·052	...	34	48	−9	1·3	1	1	0	1	1	0	0	8	18
December	29·387	29·332	+·012	60·9	55·2	+0·9	...	54·0	...	·326	·317	+·046	...	63	71	+8	4·3	2	0	2	4	1	0	2	5	15
Year	29·087	29·032	−·004	80·3	74·3	+0·4	...	65·6	...	·474	·467	−·024	...	45	52	−4	2·8	38	22	21	39	20	8	17	58	142

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 10 HRS. (L. M. T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1934.

Station, height of bar. cistern above mean sea level in feet and month.	Pressure reduced to 32 °F and standard gravity, inches.			Temperature of air, °F.			Wet bulb temperature, °F.		Vapour pressure, inches.				Relative humidity, %.				Cloud amount.	Wind direction at 10 hrs. Number of winds from—								
	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs. (L. M. T.)	From minimum.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L. M. T.)	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
SRINAGAR (5204)*																										
January	24·897	24·853	−·106	34·2	33·2	+2·5	...	32·6	...	·168	·156	−·002	...	85	86	+2	7·3	0	0	1	4	4	0	3	2	17
February	24·991	24·929	+·024	43·8	43·2	+10·2	...	40·9	...	·229	·215	+·041	...	79	75	−8	5·3	1	0	1	4	3	1	3	4	11
March	24·960	24·912	+.040	49·5	47·3	+1·9	...	44·5	...	·239	·229	−·026	...	68	70	−11	6·1	5	2	3	5	4	1	2	2	7
April	24·926	24·880	+·028	58·2	56·5	+0·7	...	52·3	...	·328	·324	−·006	...	68	70	−8	5·8	3	0	2	3	0	1	1	2	18
May	24·895	24·861	+·079	63·1	60·6	−3·5	...	55·7	...	·362	·351	−·091	...	64	66	−12	5·4	4	2	2	3	1	0	1	5	13
June	24·777	24·698	+·034	79·8	72·8	+2·2	...	64·6	...	·464	·492	−·043	...	49	54	−25	3·0	9	6	1	0	1	0	3	2	8
July	24·728	24·691	+·093	79·0	77·6	+4·1	...	67·6	...	·542	·543	−·096	...	56	55	−26	3·8	6	1	0	1	2	3	4	4	10
August	24·795	24·752	+·116	76·3	73·6	+2·2	...	67·3	...	·564	·535	−·078	...	64	62	−18	5·1	5	1	1	1	2	0	5	2	14
September	24·892	24·826	+·055	74·0	69·3	+3·7	...	63·1	...	·452	·436	−·062	...	55	56	−24	1·3	5	1	0	3	1	1	1	4	14
October	25·049	24·992	+·089	60·0	55·1	+0·4	...	50·2	...	·257	·250	−·052	...	43	56	−23	1·6	1	3	0	2	2	0	1	0	22
November	25·068	25·015	+·051	49·0	44·1	−1·0	...	40·4	...	·157	·157	−·076	...	47	56	−23	2·9	2	3	1	5	1	1	1	2	14
December	25·083	25·038	+·049	39·8	38·4	+2·0	...	36·0	...	·168	·162	−·014	...	70	75	−6	6·7	2	3	1	2	1	3	4	7	8
Year	24·922	24·871	+·046	58·9	56·0	+2·1	...	51·3	...	·327	·321	−·042	...	63	65	−15	4·5	43	22	13	33	22	11	29	36	156
PESHAWAR (1164)																										
January	28·868	28·814	−·051	52·1	45·8	−4·7	...	42·7	...	·152	·155	...	...	40	37	...	5·7	6	1	6	7	5	1	0	0	5
February	28·776	28·694	−·124	66·4	60·9	+6·9	...	53·3	...	·230	·235	...		37	33	...	4·0	6	2	3	7	0	1	0	2	7
March	28·779	28·730	+·003	67·4	62·4	−1·0	...	56·3	...	·295	·295	...	...	48	45	...	5·7	7	4	3	3		0	2	5	5
April	8·624	28·569	−·041	79·8	73·7	+0·3	...	64·1	...	·416	·407	...	...	40	38	...	5·7	3	6	5	1	0	1	1	2	6
May	28·624	28·547	+·086	85·9	79·8	−0·4	...	66·2	...	·370	·376	...	...	33	31	...	4·7	5	3	5	3	1	2	4	5	3
June	28·345	28·284	−·018	96·6	90·3	0	...	75·5	...	·579	·418	...	...	37	32	...	2·7	11	7	8	1	0	0	1	2	0
July	28·288	28·228	−·044	93·1	91·7	+2·1	...	78·8	...	·792	·738	...	...	51	43	...	2·4	12	13	2	1	0	0	0	3	0
August	28·410	28·340	−·002	88·5	86·8	-0·3	...	73·5	...	·837	·811	...	...	62	55	...	4·6	12	9	2	2	0	0	2	4	0
September	28·508	28·447	−·052	88·2	83·7	+1·8	...	72·2	...	·568	·547	...	...	44	39	...	1·1	13	9	2	2	1	0	0	1	2
October	28·737	28·676	−·014	80·8	71·7	-0·8	...	60·8	...	·269	·289	...	...	25	25	...	1·0	7	9	4	1	2	0	0	3	5
November	28·837	28·779	−·036	69·6	60·9	+0·5	...	53·5	...	·197	·225	...	...	27	29	...	2·6	6	3	3	4	2	2	0	1	9
December	28·928	28·873	−·009	58·3	53·4	+1·6	...	51·0	...	·277	·294	...	...	58	57	...	6 2	7	2	1	4	3	1	4	2	7
Year	28·644	28·582	−·025	77·2	71·8	+0·3	...	62·7	...	·415	·399	...	...	42	39	...	3·9	100	68	44	36	16	8	14	30	49
QUETTA (5405)																										
January	24·722	24·676	−·022	30·1	27·6	−12·4	...	(c)	...	(c)	(c)	...	...	(b)	(b)	...	2·6	7	2	1	1	2	4	0	3	11
February	24·745	24·697	+·015	54·0	47·4	+4·6	...	41·3	...	·114	·099	...	...	27	19	...	2·4	5	1	0	0	5	1	2	5	9
March	24·476	24·432	−·030	55·5	50·8	−2·3	...	42·3	...	·139	·129	(d)	...	33	29	...	5·5	4	1	0	1	8	3	1	1	12
April	24·666	24·618	−·016	68·4	62·9	+0·9	...	49·4	...	·140	·127	...	...	21	18	...	4·0	3	3	0	0	4	1	5	10	4
May	24·638	24·596	+·007	74·7	68·2	-2·0	...	53·4	...	·171	·158	...	...	21	19	...	4·0	3	1	2	0	3	1	10	5	6
June	24·497	24·4 8	−·019	86·5	79·1	+2·7	...	61·6	...	·276	·242	...	...	23	21	...	2·2	4	1	0	2	6	1	8	4	4
July	24·435	24·400	—02 6	88·5	83·3	+3·1	...	63·1	...	·304	·252	...	...	22	17	...	0·7	3	2	1	1	5	1	1	4	13
August	24·498	24·452	—·028	85·9	81·8	+4·3	...	65·3	...	·397	·325	...	...	32	25	...	1·1	1	0	1	1	7	2	3	0	16
September	24·635	24·590	−·004	76·0	68·1	-1·3	...	51·7	...	·116	·101	...	...	13	10	...	0·2	0	0	1	1	1	1	9	14	3
October	24·781	24·736	+·012	64·4	56·5	-1·5	...	44·7	...	·081	·074	...	...	13	11	...	0	3	0	0	1	1	0	6	8	12
November	24·816	24·768	+·004	54·5	49·0	+0·5	...	41·3	...	·119	108	...	...	28	22	...	2·2	5	0	1	0	4	0	5	10	5
December	24·782	24·730	+·019	49·5	45·3	+2·4	...	41·4	...	·176	·175	...	...	54	51	...	6·3	4	1	0	3	15	3	2	2	1
Year	24·658	24·613	−·010	65·7	60·0	-0·1	...	...	...	...	...	...	...	...	...	...	2·6	42	12	7	11	61	18	52	66	96

*Aneroid barometer in use.
(a) Mean of 30 days. (c) Mean of 26 days.

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 10 HRS. (L. M. T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1934.

Station, Height of bar cistern above mean sea level in feet and month.	Pressure reduced to 32°F and standard gravity, inches.			Temperature of air, °F.			Wet bulb temperature F.		Vapour pressure, inches.				Relative humidity, %				Cloud amount.	Wind direction at 10 hrs. Number of winds from—								
	Mean 10 hrs. (L. M.T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L.M.T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs. (L. M. T.)	From minimum.	Mean 10 hrs. (L.M.T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs. (L.M.T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L.M.T.)	N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Jaipur (1431)																										
January	28·562	28·498	−·040	63·3	56·0	−3·9	...	50·2	...	·198	·199	−·069	...	33	43	−13	0·6	3	7	4	2	2	1	4	6	2
February	28·503	28·431	−·061	74·3	66·2	+2·0	...	54·1	...	·160	·145	−·117	...	18	27	−20	0·2	5	2	2	2	1	1	6	7	2
March	28·476	28·409	+·002	79·5	72·7	−2·2	...	58·8	...	·221	·205	−·100	...	24	32	−7	0·9	3	4	7	2	4	0	3	6	2
April	28·340	28·276	−·025	92·5	83·4	−2·9	...	63·3	...	·194	·180	−·153	...	13	20	−10	0·5	4	2	0	0	2	2	9	9	2
May	28·281	28·226	+·028	97·3	89·1	−2·5	...	67·8	...	·287	·258	−·190	...	17	23	−12	0·3	2	1	1	0	0	3	17	6	1
June	28·138	28·092	+·005	93·3	88·7	−1·9	...	76·2	...	·669	·645	−·011	...	46	54	+2	3·1	0	0	2	0	1	6	13	6	2
July	28·120	28·095	+·026	86·7	84·6	−0·7	...	76·5	...	·777	·763	−·071	...	62	65	−11	4·9	0	1	3	0	0	6	16	5	0
August	28·163	28·116	−·017	82·2	79·9	−2·4	...	77·4	...	·874	·881	+·065	...	80	89	+11	8·4	1	5	2	1	3	2	4	10	3
September	28·284	28·230	−·028	86·6	81·6	−0·8	...	74·4	...	·692	·701	+·009	...	57	65	−3	2·1	4	2	1	0	0	1	9	13	0
October	28·482	28·424	+·011	87·1	75·3	−2·6	...	63·1	...	·260	·267	−·135	...	20	34	−12	0·1	1	5	0	0	0	3	6	9	7
November	28·559	28·498	−·018	79·0	66·3	−2·6	...	59·2	...	·241	·226	−·071	...	24	37	−10	0·3	2	1	0	0	0	6	6	6	9
December	28·629	28·564	0	68·9	60·8	−0·7	...	57·6	...	·327	·314	+·047	...	48	60	+7	2·7	0	6	5	2	8	2	3	1	4
Year	28·378	28·322	−·009	82·6	75·3	−1·8	...	64·9	...	·408	·399	−·066	...	37	46	−7	2·0	25	36	27	9	21	33	96	84	34
Bombay (37)																										
January	29·920	29·861	−·021	72·3	71·8	−2·1	58·4	63·0	·422	·462	·492	−·079	63	57	62	−6	2·6	5	10	13	2	0	0	0	1	0
February	29·904	29·840	−·017	76·3	75·6	+1·2	64·6	68·6 (a)	·565	·596 (a)	·625	+·044	81	66 (a)	71	+3	0·4	2	9	12	3	0	2	0	0	0
March	29·850	29·788	−·015	80·5	78·5	+0·3	68·2	72·0	·648	·675	·694	−·002	82	65	71	−1	0·4	8	2	5	1	3	7	2	2	1
April	29·795	29·739	−·003	86·5	83·3	+1·6	74·5	77·4	·813	·830	·829	+·028	87	68	73	−1	0·4	4	0	0	0	2	10	8	6	0
May	29·798	29·752	+·051	86·9	85·0	+0·7	76·0	78·3	·849	·851	·882	−·002	84	67	72	−2	0·9	4	0	0	0	2	2	12	10	1
June	29·634	29·606	+·007	84·3	83·1	+0·1	76·1	79·4	·871	·936	·923	+·014	91	80	82	+1	7·1	1	1	1	1	6	10	8	2	0
July	29·648	29·616	+·020	81·5	81·2	+0·3	75·3	78·0	·850	·908	·899	+·008	91	85	85	0	9·3	1	0	1	2	0	13	12	2	0
August	29·699	29·664	+·009	80·9	80·0	−0·1	74·7	77·5	·836	·894	·879	+·017	92	85	86	+2	9·3	0	0	0	0	1	15	15	0	0
September	29·773	29·731	+·016	81·8	80·6	+0·6	74·3	77·2	·816	·870	·848	−·004	90	81	81	−2	6·4	0	1	0	2	4	7	10	6	0
October	29·850	29·796	+·025	84·0	82·3	+1·3	72·8	76·2	·759	·798	·808	−·021	83	69	75	−5	2·5	3	11	10	1	1	0	1	4	0
November	29·925	29·887	+·033	78·1	77·4	−1·6	68·2	71·3	·647	·675	·695	+·003	85	71	74	+4	2·1	0	18	9	2	1	0	0	0	0
December	29·961	29·903	+·026	77·3	76·7	+1·0	65·2	66·6	·558	·583	·615	+·014	76	63	67	−1	1·9	0	14	16	1	0	0	0	0	0
Year	29·813	29·763	+·011	80·8	79·6	+0·3	70·7	74·0	·719	·757	·764	+·002	84	71	75	0	3·6	28	66	67	15	20	66	88	33	2
Poona (1834)																										
January	28·116	28·045	−·033	72·9	67·6	−1·7	...	59·2	...	·345	·336	...	...	41	51	...	3·1	1	6	14	6	2	0	1	0	1
February	28·119	28·043	−·006	81·2	72·8	−0·6	...	59·0	...	·229	·262	...	...	21	34	...	0·2	0	3	15	2	0	1	2	5	0
March	28·056	27·983	−·017	85·2	77·4	−2·4	...	62·1	...	·275	·328	...	...	23	37	...	0·6	0	8	14	4	0	0	1	2	2
April	27·991	27·924	−·017	91·8	82·8	−1·1	...	65·9	...	·315	·382	...	...	21	37	...	0·1	4	4	4	2	0	0	4	11	1
May	27·984	27·936	+·030	91·2	82·6	−1·8	...	67·7	...	·385	·438	...	...	27	42	...	0·3	4	3	0	0	0	0	8	16	0
June	27·862	27·826	−·005	82·3	78·0	−1·1	...	72·7	...	·683	·690	...	...	63	73	...	7·2	2	0	1	1	0	9	13	4	0
July	27·853	27·820	−·002	78·1	74·4	−1·0	...	72·3	...	·721	·710	...	...	75	81	...	8·7	0	0	0	0	0	4	22	3	2
August	27·897	27·861	−·006	76·6	73·0	−1·2	...	71·8	...	·717	·708	...	...	79	87	...	9·3	0	0	0	0	0	0	26	5	0
September	27·965	27·923	−·005	78·8	73·7	−1·0	...	71·0	...	·662	·658	...	...	67	77	...	8·0	0	1	0	0	0	1	22	5	1
October	28·066	28·005	+·007	82·6	76·4	+0·1	...	68·3	...	·524	·554	...	...	47	63	...	3·9	0	4	13	6	0	0	3	1	4
November	28·131	28·069	+·017	76·1	68·4	−3·7	...	63·0	...	·415	·413	...	...	47	57	...	2·5	0	7	12	6	0	1	1	0	3
December	28·167	28·099	+·005	74·5	67·4	−1·0	...	60·4	...	·349	·346	...	...	41	50	...	1·5	0	6	14	5	0	0	0	0	6
Year	28·017	27·961	−·003	80·9	74·5	−1·4	...	66·1	...	·468	·485	...	...	46	57	...	3·8	11	42	87	32	2	16	103	52	20

(a) Mean of 30 days.

TABLE VI.—Abstract of observations recorded at 10 hrs. (L. M. T.) and corrected daily means at 13 first class stations in India during each month and the year 1934.

Station, height of bar. cistern above mean sea level in feet and month.	Pressure reduced to 32° F and standard gravity, inches.			Temperature of air, °F.			Wet bulb temperature, °F.		Vapour pressure, inches.				Relative humidity, %				Cloud amount	Wind direction at 10 hrs. Number of winds from—								
	Mean 10 hrs. (L.M.T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L.M.T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.(L. M. T.)	From minimum.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L. M. T.)	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Bangalore (3021)																										
January	26·943	26·884	−·034	72·0	69·6	+2·1	...	63·9	...	·501	·507	+·099	...	64	69	+7	5·8	1	7	15	4	0	0	1	2	1
February	26·958	26·890	−·011	76·7	72·4	+0·4	...	61·1	...	·358	·352	−·055	...	40	44	−10	1·7	0	5	13	2	2	3	3	0	0
March	26·911	26·848	−·016	80·9	77·0	+0·3	...	64·2	...	·409	·367	−·080	...	39	40	−10	2·6	0	0	2	15	4	4	4	1	1
April	26·875	26·814	+·004	81·9	80·4	+0·5	...	69·5	...	·577	·506	−·049	...	54	51	−4	3·0	0	0	2	0	4	7	13	3	1
May	26·866	26·810	+·035	82·6	80·2	+1·7	...	71·1	...	·627	·577	−·028	...	56	55	−8	3·3	0	0	0	0	2	4	12	13	0
June	26·803	26·760	+·005	77·1	74·9	+0·9	...	68·8	...	·606	·600	−·023	...	66	70	−4	7·5	0	0	0	0	0	8	16	6	0
July	26·791	26·753	−·007	75·7	73·4	+1·4	...	67·9	...	·592	·577	−·030	...	67	67	−10	9·1	0	0	0	0	0	2	24	5	0
August	26·838	26·798	+·022	74·8	72·4	+0·6	...	68·0	...	·606	·605	−·008	...	71	74	−5	9·0	0	0	0	0	1	3	26	1	0
September	26·855	26·803	−·003	76·9	74·5	+2·7	...	67·1	...	·549	·526	−·098	...	59	58	−22	7·4	0	0	0	0	0	3	21	6	0
October	26·895	26·840	+·001	75·7	73·6	+1·8	...	68·9	...	·613	·603	−·005	...	68	72	−6	7·6	2	7	8	3	0	1	6	2	2
November	26·945	26·897	+·018	73·3	69·1	−0·5	...	63·4	...	·473	·479	−·060	...	58	64	−11	5·4	3	6	9	1	1	1	1	1	2
December	26·985	26·931	+·017	71·7	67·6	+0·1	...	61·5	...	·428	·440	−·026	...	55	61	9	4·7	1	4	25	1	0	0	0	0	0
Year	26·889	26·836	+·003	76·7	73·8	+1·0	...	66·3	...	·528	·511	−·031	...	58	60	−8	5·6	12	29	74	28	14	36	127	40	7
Madras (22)																										
January	29·923	29·863	−·063	79·4	75·6	+0·2	...	73·3	...	·739	·731	+·046	...	74	81	+2	7·3	3	5	10	0	1	1	0	2	9
February	29·933	29·866	−·030	81·5	75·1	−1·3	...	72·3	...	·671	·666	−·049	...	62	71	−7	3·1	2	2	7	1	8	1	5	1	1
March	29·863	29·803	−·032	85·8	78·4	−0·6	...	75·8	...	·754	·761	−·041	...	61	71	−7	4·3	1	1	5	7	12	1	4	0	0
April	29·782	29·724	−·031	90·1	84·1	+0·5	...	78·8	...	·829	·893	−·007	...	59	76	−2	5·0	1	1	1	4	15	5	2	1	0
May	29·722	29·674	+·011	94·2	88·9	+0·7	...	79·3	...	·799	·897	+·001	...	51	70	0	3·6	0	0	0	3	13	8	5	2	0
June	29·670	29·624	−·005	90·1	87·4	−0·4	...	77·2	...	·760	·823	−·010	...	54	66	0	7·8	0	0	0	0	2	3	23	2	0
July	29·667	29·625	−·023	88·6	85·4	+0·2	...	76·3	...	·740	·811	−·001	...	55	67	−1	7·8	0	0	0	0	0	3	23	3	2
August	29·727	29·674	−·002	86·6	84·1	+0·1	...	77·0	...	·797	·853	+·017	...	63	74	+1	7·8	0	0	0	0	3	2	22	3	1
September	29·739	29·684	−·023	88·4	84·7	+1·3	...	76·4	...	·749	·820	−·028	...	57	69	−8	5·4	0	0	0	0	0	2	19	7	2
October	29·821	29·771	−·004	84·3	80·6	0	...	78·4	...	·892	·896	+·040	..	77	85	+2	7·1	5	1	7	1	2	1	5	4	5
November	29·909	29·856	0	82·0	77·1	−0·7	...	73·8	...	·728	·720	−·076	...	67	74	−10	6·8	18	5	2	0	1	1	2	4	2
December	29·975	29·923	+·013	79·5	74·6	−1·0	...	72·0	...	·685	·672	−·057	...	68	78	−6	6·2	14	11	5	0	0	0	0	1	0
Year	29·811	29·757	−·016	85·9	81·3	−0·1	...	75·9	..	·762	·795	−·014	...	62	73	−8	6·0	39	26	37	16	57	28	110	30	22
Kodaikanal (7688)																										
January	22·797	22·761	−·009	58·0	53·9	+1·4	...	51·2	...	·310	·325	+·069	...	66	73	+11	6·2	5	10	6	3	0	0	0	1	1
February	22·816	22·781	0	58·8	53·9	+0·3	...	44·3	...	·141	·186	−·076	...	29	48	−13	1·1	5	11	5	2	2	0	0	1	2
March	22·807	22·774	−·009	62·0	56·6	+0·4	...	49·7	...	·232	·287	+·019	...	42	66	+10	2·9	2	10	8	7	1	0	0	0	3
April	22·811	22·775	+·012	55·7	60·1	+1·2	...	53·4	...	·280	·335	−·004	...	46	70	+5	3·8	4	14	6	3	1	0	0	1	1
May	22·810	22·779	+·037	66·2	61·0	+1·3	...	56·1	...	·346	·403	+·022	...	54	75	+3	4·1	3	15	5	2	2	0	0	0	4
June	22·742	22·715	+·015	61·1	57·5	+0·6	...	56·0	...	·398	·410	+·034	...	75	83	+6	7·3	4	1	0	1	1	0	8	18	2
July	22·726	22·699	+·012	60·0	56·5	+1·3	...	55·1	...	·384	·389	+·022	...	75	83	0	7·2	1	1	0	1	1	0	2	21	4
August	22·770	22·739	+·038	60·6	57·2	+1·7	...	55·0	...	·374	·395	+·015	...	71	81	−3	7·1	0	1	0	1	0	0	6	16	7
September	22·778	22·743	+·027	61·8	57·8	+2·4	...	55·0	...	·367	·389	+·009	...	66	80	−4	5·4	0	1	0	5	3	0	3	10	8
October	22·796	22·759	+·020	59·4	56·0	+1·2	...	56·3	...	·419	·425	+·047	...	84	91	+5	8·7	2	11	2	2	3	1	0	3	7
November	22·811	22·778	+·019	58·5	54·2	+0·7	...	52·1	...	·323	·349	+·003	...	68	76	−7	5·6	3	9	1	5	4	0	1	3	4
December	22 817	22·784	+·024	57·5	52·4	−0·7	...	50·1	...	·288	·325	+·049	...	63	75	+9	4·7	1	4	6	9	1	0	0	3	7
Year	22·790	22·757	+·015	60·8	56·4	+1·0		52·9	...	·322	·362	+·017	...	62	75	+2	5·3	30	88	39	46	19	1	20	72	50

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 10 HRS. (L. M. T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1934.

Station, height of bar cistern above mean sea level in feet and month.	Pressure reduced to 32°F and standard gravity, inches.			Temperature of air, °F.			Wet bulb temperature, °F.		Vapour pressure, inches.				Relative humidity, %				Cloud amount.	Wind direction at 10 hrs. Number of winds from—								
	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs. (L. M. T.)	From minimum.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs. (L. M. T.)	Mean of daily means.	Departure from normal.	Mean 10 hrs. (L. M. T.)	N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Trivandrum (200)																										
January . .	29·658	29·607	−·056	81·2	78·7	+1·6	...	74·6	...	·775	·794	+·128	...	73	85	+11	7·0	1	1	2	1	0	0	1	0	25
February . .	29·700	29·636	−·013	82·7	79·2	+0·6	...	74·6	...	·719	·741	+·056	...	65	76	+3	2·8	7	0	0	0	1	2	2	1	15
March . . .	29·657	29·602	−·025	84·2	80·1	−0·2	...	76·9	...	·802	·826	+·051	...	67	81	+5	5·0	8	1	0	0	1	0	2	2	17
April . . .	29·626	29·574	−·006	85·7	82·6	+0·7	...	78·8	...	·885	·896	+·068	...	73	83	+4	5·0	8	0	0	0	0	0	5	12	5
May . . .	29·633	29·593	+·022	83·6	82·4	+1·1	...	79·6	...	·919	·932	+·089	...	75	84	+1	7·9	4	0	0	0	0	0	14	11	2
June . . .	29·618	29·580	+·002	81·2	78·4	0	...	77·4	...	·888	·880	+·070	...	84	91	+5	8·8	15	0	0	1	0	0	2	9	3
July . . .	29·605	29·572	−·019	81·2	78·3	+1·1	...	77·0	...	·867	·863	+·068	...	81	88	+1	7·2	9	0	0	0	0	0	4	18	0
August . . .	29·655	29·614	+·015	82·6	79·4	+1·6	...	77·8	...	·882	·874	+·089	...	89	92	+6	8·3	6	0	0	0	0	0	5	19	1
September . .	29·663	29·611	−·005	84·5	80·0	+2·0	...	76·9	...	·819	·832	+·051	...	69	79	−5	6·0	9	0	0	0	0	0	0	21	0
October . . .	29·652	29·606	−·015	82·4	79·0	+1·3	...	77·0	...	·861	·859	+·073	...	80	88	+3	9·3	5	0	1	2	1	0	0	11	11
November . .	29·704	29·650	+·010	82·9	79·0	+1·3	...	76·1	...	·802	·794	+·013	...	72	81	−3	5·0	4	0	0	0	1	0	5	1	19
December .	29·703	29·653	0	83·9	79·9	+2·5	...	73·8	...	·702	·729	+·021	...	60	72	−6	4·2	0	2	1	0	0	0	0	0	28
Year . . .	29·656	29·608	−·008	83·0	79·7	+1·1	...	76·6	...	·827	·835	+·065	...	74	83	+2	6·4	76	4	4	4	4	2	40	105	126

TABLE VII.—ABSTRACT OF OBSERVATIONS RECORDED AT 10 AND 16 HRS: (L. M. T.)

Station and height of bar cistern above mean sea level in feet.	Month.	PRESSURE REDUCED TO 32°F AND STANDARD GRAVITY, INCHES.					TEMPERATURE OF AIR, °F.								WET BULB TEMPERATURE, °F.				VAPOUR PRESSURE, INCHES.				
		Mean 10 hrs.	Mean 16 hrs.	Mean daily range.	Mean of daily means.	Departure from normal.	Mean maximum.	Mean minimum.	Highest maximum.	Lowest minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.	From minimum.	Mean 10 hrs.	Mean 16 hrs	Mean of daily means.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Katmandu (NEPAL) (4,388)	January	25·650	25·573	·077	25·606	—·036	...	36·1	...	27	46·8	61·6	...	...	...	42·9	50·7	46·8	...	·231	·247	·247	—·006
	February	·689	·553	·086	·593	—·010	...	42·9	...	31	52·1	63·6	...	...	...	49·0	54·1	51·5	...	·312	·308	·320	+·060
	March	·594	·518	·076	·553	—·013	...	43·8	...	36	64·6	77·1	...	...	...	53·4	59·5	56·5	...	·275	·297	·284	—·017
	April	·545	·483	·062	·512	+·008	...	51·7	...	45	76·0	80·1	...	...	...	59·6	61·1	60·3	...	·326	·316	·314	—·046
	May	·500	·442	·058	·467	+·019	...	59·0	...	49	79·1	82·3	...	...	...	64·9	66·1	65·5	...	·454	·452	·447	—·043
	June	·437	·366	·071	·398	+·040	...	65·3	...	58	77·1	80·1	...	...	...	69·2	71·1	70·1	...	·614	·652	·632	—·008
	July	·387	·332	·055	·358	+·013	83·4	68·4	90	67	77·6	78·6	75·5	+0·4	...	71·6	73·0	72·3	...	·713	·746	·733	+·040
	August	·456	·377	·079	·414	+·022	84·1	68·4	88	66	78·9	77·6	75·8	+1·3	...	71·7	72·3	72·0	...	·702	·719	·711	+·029
	September	·513	·431	·082	·469	—·009	83·2	66·4	91	60	76·0	79·4	74·4	+1·2	...	70·0	72·4	71·2	...	·662	·702	·684	+·051
	October	·662	·583	·079	·619	+·027	80·7	55·9	86	42	68·5	76·3	68·3	+1·4	...	62·9	66·2	64·5	...	·511	·522	·515	+·039
	November	·677	·596	·081	·633	—·020	71·7	46·9	78	39	57·0	66·0	58·8	+1·0	...	53·6	57·5	55·5	...	·376	·366	·371	+·035
	December	·775	·678	·097	·723	+·058	65·8	39·2	78	35	48·4	61·5	51·6	—1·0	...	46·4	52·5	49·5	...	·287	·293	·298	+·030
	Year	25·570	25·494	·076	25·529	+·009	...	53·7	...	27	66·8	73·7	...	...	...	59·6	63·0	61·3	...	·455	·469	·463	+·014
SEYCHELLES (INDIAN OCEAN) (15)	January	29·864	29·775	·089	29·831	—·017	81·6	74·5	83	69	79·9	79·7	76·9	—1·6	71·3	75·0	74·8	73·7	·717	·799	·799	·760	—·043
	February	·874	·782	·092	·836	—·016	82·9	74·1	85	71	80·9	81·2	77·4	—1·7	71·8	75·9	75·8	74·5	·750	·828	·821	·823	—·019
	March	·861	·764	·097	·817	—·011	84·1	74·7	86	73	82·1	82·0	78·4	—0·5	72·6	76·3	76·3	75·1	·783	·815	·821	·883	—·028
	April	·870	·779	·091	·827	—·002	86·0	75·4	88	74	84·0	83·7	79·4	0	73·3	77·6	77·7	76·2	·783	·869	·876	·868	+·005
	May	·917	·830	·087	·875	+·011	88·6	75·6	88	72	81·8	82·5	78·2	—1·3	72·4	76·4	76·5	75·1	·743	·821	·845	·816	—·030
	June	·912	·840	·072	·878	+·008	81·0	75·6	83	73	79·6	79·7	77·2	—0·4	70·9	74·4	74·4	73·2	·697	·770	·784	·760	—·021
	July	·897	·823	·074	·861	—·055	81·3	73·9	83	67	78·9	79·3	76·3	—0·1	70·8	74·7	74·7	73·4	·717	·812	·806	·793	+·042
	August	·938	·857	·076	·898	+·002	81·2	74·6	83	72	79·1	79·4	76·4	—0·2	71·6	74·4	74·4	73·5	·743	·777	·770	·771	+·024
	September	·935	·848	·087	·900	—·003	81·5	74·0	84	70	79·4	79·4	76·3	—1·4	71·3	74·6	75·1	73·7	·724	·799	·806	·783	+·016
	October	·925	·834	·091	·891	+·013	82·5	74·2	84	70	80·7	80·5	76·9	—0·8	71·2	75·0	75·1	73·8	·717	·792	·792	·780	—·014
	November	·902	·808	·094	·868	+·003	83·5	73·6	85	71	81·5	81·2	77·1	—0·5	71·3	75·5	75·7	74·2	·724	·785	·821	·802	—·034
	December	·873	·786	·087	·840	—·019	83·3	73·9	86	72	81·1	80·6	77·5	—0·4	72·2	76·4	76·6	75·1	·763	·835	·872	·848	+·016
	Year	29·897	29·811	·086	29·860	—·007	82·7	74·5	88	67	80·7	80·8	77·3	—0·8	71·7	75·5	75·6	74·3	·738	·809	·[illegible]	·806	—·006

T KATMANDU AND SEYCHELLES DURING EACH MONTH AND THE YEAR 1934.

Relative Humidity, %.					Cloud Amount. (Tenths of Sky).				Wind Direction at 10 hrs. and 16 hrs. Number of Winds From									Wind Velocity.		Rainfall, Inches.		Number of rainy days.
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Calm.	Mean wind direction.	Mean velocity in miles per diem.	Departure from normal.	Actual.	Departure from normal.	Actual.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
...	72	45	63	—14	8·1	2·6	5·3	+1·9	27	1	9	0	4	0	19	2	0	N 23 W	26	+11	0·44	—0·55	1
...	81	53	70	+1	6·4	4·5	6·5	+3·0	17	4	10	1	3	1	13	7	0	N 14 W	25	+4	2·06	+1·20	6
...	40	32	40	—21	1·2	1·7	1·5	—1·8	12	2	14	1	3	0	23	7	0	N 39 W	30	+7	0·12	—0·97	0
...	36	31	33	—25	1·2	2·0	1·6	—2·4	10	1	14	2	5	0	26	2	0	N 63 W	23	—3	1·71	—0·23	4
...	46	41	43	—25	3·5	4·2	3·9	—1·3	13	1	16	3	1	1	22	5	0	N 29 W	26	—5	3·13	—0·88	6
...	66	64	65	—11	6·5	5·7	6·1	—0·1	21	3	12	0	8	0	14	2	0	N 5 W	24	+1	9·42	+0·20	15
...	75	77	76	—5	8·4	9·0	8·7	+1·9	16	1	10	6	5	5	5	1	13	N 52 E	22	+7	16·95	+2·04	24
...	71	76	74	—8	7·8	8·7	8·3	+1·2	16	6	11	2	2	2	5	3	15	N 25 E	22	+9	8·27	—6·39	19
...	74	71	75	—6	7·8	7·9	7·8	+1·5	9	7	10	2	4	4	3	4	17	N 42 E	20	+8	9·20	+1·15	17
...	73	58	66	—9	4·5	3·9	4·2	+0·2	13	9	9	4	0	1	7	12	7	N 5 E	20	+8	1·63	—0·66	3
...	80	58	73	—2	3·7	4·9	4·3	+1·7	11	4	5	2	0	2	9	19	8	N 31 W	23	+13	0·23	+0·08	1
...	86	54	73	—2	5·1	4·4	4·7	+2·1	11	3	10	0	1	1	10	17	9	N 25 W	24	+8	0·29	—0·02	1
...	67	55	63	—10	5·5	5·0	5·3	+0·8	176	42	130	23	36	17	156	81	69	...	24	+6	53·45	—4·33	97
86	78	78	84	0	7·5	8·1	7·8	+0·8	2	1	2	2	0	1	13	39	2	N 53 W	193	+86	13·18	—3·91	17
88	78	77	84	+1	6·6	6·3	6·5	0	8	17	2	0	0	1	2	24	2	N 8 W	114	+7	21·34	+8·74	7
90	75	77	85	+2	6·2	6·0	6·1	—0·6	9	14	7	2	1	0	4	21	3	N 1 W	97	+11	6·67	—3·24	8
90	74	75	83	+3	5·5	6·3	5·9	+0·8	7	7	17	13	5	2	0	8	1	N 85 E	107	+25	4·10	—3·25	5
86	77	75	81	+1	5·2	5·2	5·2	+0·1	0	0	26	31	3	0	1	0	1	S 62 E	206	+86	5·71	—0·36	4
79	78	76	80	+1	7·8	7·5	7·7	+0·6	0	0	8	28	20	4	0	0	0	S 31 E	310	+122	2·52	—2·26	7
86	82	80	84	+6	7·1	7·5	7·3	+1·7	0	0	8	38	11	3	0	0	2	S 40 E	285	+74	22·02	+20·50	10
86	80	78	82	+4	7·7	7·7	7·7	+1·3	0	0	12	44	5	1	0	0	0	S 49 E	315	+84	14·30	+11·74	14
88	78	80	84	+4	6·7	7·0	6·9	+1·3	0	1	19	32	4	0	0	2	2	S 59 E	272	+62	23·19	+18·83	15
86	76	76	81	0	5·7	5·8	5·8	—0·4	1	1	15	23	15	3	1	0	3	S 42 E	187	+48	4·90	+0·12	7
88	74	77	83	0	6·4	6·6	6·5	—0·4	7	7	7	2	2	2	4	23	6	N 19 W	111	+18	8·52	—1·89	11
93	80	83	87	+4	6·8	7·6	7·2	+0·4	3	7	8	2	2	1	6	27	5	N 27 W	103	—6	16·88	+2·44	21
87	77	78	83	+2	6·6	6·8	6·7	+0·5	37	55	131	217	68	18	31	144	27	...	162	+52	144·23	+46·95	132

TABLE VIII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 15 STATIONS DURING EACH MONTH AND THE YEAR 1934.

Station, Latitude and Longitude.	Month.	Bright Sunshine. No. of days with duration. Nil.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month.	Percentage of possible hours of sunshine in the month.	Duration in the month. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal Radiation Temperature (1¼ above ground). Mean minimum.	Departure from normal.	Lowest in the month.	Date.	Depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
CALCUTTA— Lat. 22° 32′ N. Long. 88° 20′ E.	January	0	3	3	15	10	236·1	70	9·6	20	0·7	8	50·3	+1·7	38·1	19	5·2	—2·1
	February	0	0	2	14	12	232·7	73	9·8	5	3·4	16	56·3	+2·8	42·0	2, 6, 7	5·3	—1·7
	March	1	0	0	15	15	265·9	71	10·2	23	0	7	64·8	+1·4	54·5	17	5·7	—0·4
	April	0	1	0	12	17	271·2	71	10·7	22	1·8	15	74·1	+2·7	68·0	22	3·6	—0·9
	May	0	1	4	14	12	254·2	62	10·8	3	2·3	1	76·9	+2·2	67·0	19	2·7	—0·5
	June	3	10	7	7	3	123·7	31	10·4	3, 10	0	13, 14, 18	77·2	+0·5	71·5	16	2·3	+0·1
	July	2	11	13	5	0	108·6	26	8·7	23	0	9, 12	78·1	+1·2	74·6	12	1·4	—0·5
	August	1	13	6	11	0	124·6	31	9·0	15	0	6	77·3	+0·7	75·7	20, 30	1·4	—0·6
	September	1	4	15	9	1	142·0	39	9·5	4	0	10	77·7	+2·1	76·0	25	1·6	—1·0
	October	1	7	1	14	8	200·3	56	10·4	25	0	16	72·2	+2·9	63·2	23	3·2	—1·2
	November	3	1	4	4	18	223·2	67	10·2	17	0	1, 2, 3	59·5	+1·1	47·0	30	4·8	—1·5
	December	0	2	1	17	11	246·7	74	9·7	2	1·3	6	53·6	+5·0	46·5	31	5·2	—2·4
	Year	12	53	56	137	107	2,429·2	55	10·8	...	0	...	68·2	+2·0	38·1	1	3·5	—1·1
AGRA— Lat. 27° 06′ N. Long. 78° 01′ E.	January	0	1	1	7	22	285·4	87	10·4	18	2·9	11	36·7	...	25·5	22	5·4	...
	February	0	0	0	4	24	279·9	89	10·7	6	7·5	27	(c) 42·7	...	25·3	2	4·7	...
	March	0	2	1	5	23	286·7	77	11·2	24	0·4	6	49·1	...	40·1	13	5·9	...
	April	0	0	0	0	30	321·2	84	11·6	16	9·0	30	56·7	...	46·4	15	8·9	...
	May	0	1	0	1	29	322·8	77	12·1	14	2·4	12	(b) 65·3	...	57·8	14	10·6	...
	June	0	3	5	8	12	215·0*	52*	12·1	13	0·3	28	75·0	...	68·1	4	6·1	...
	July	3	4	9	7	8	188·5	45	11·3	10	0	2, 27, 28	77·4	...	73·8	16	2·1	...
	August	0	8	8	10	5	173·8	43	11·8	11	0·1	9	77·5	...	73·1	26	0·3	...
	September	0	3	6	8	13	228·5	62	10·9	15	0·9	1	73·2	...	59·3	29	1·7	...
	October	0	0	0	2	29	312·9	88	10·0	4 days	8·1	6	48·9	...	42·2	30	7·1	...
	November	0	0	1	2	27	287·1	88	10·2	4, 10	4·3	5	40·7	...	31·2	28	7·9	...
	December	0	3	6	5	17	236·2	75	10·1	29	1·1	23	42·7	...	33·4	31	5·0	...
	Year	3	25	37	59	239	3,137·9	72	12·1	...	0·1	...	57·2	...	25·5	1	5·4	...
LAHORE— Lat. 31° 35′ N. Long. 74° 20′ E.	January	1	2	3	24	1	221·2	69	9·2	23	0	10	29·9	—1·8	20·7	20	7·6	—0·9
	February	1	1	4	15	7	212·4	69	9·6	8	0	26	39·7	+3·9	19·8	2	8·6	+0·2
	March	2	2	4	9	14	237·5	64	10·7	22	0	6, 8	46·7	+1·0	34·4	17	7·3	+0·2
	April	0	2	4	6	18	256·8	66	11·5	26, 27, 28	0·6	24	55·6	0	44·8	14, 15	8·8	+1·1
	May	0	1	4	6	20	282·9	66	11·8	26	2·0	12	(a) 62·2	—2·5	51·6	14	10·0	+2·8
	June	1	0	2	10	17	268·9	63	12·1	11	0	25	72·9	—1·2	59·4	12	7·2	+2·4
	July	0	2	3	15	11	250·3	58	11·3	10	2·0	30	77·2	+0·2	69·8	8	4·6	+1·5
	August	0	1	2	8	13	232·3	56	11·0	22	1·9	19	(a) 76·9	+1·6	70·8	30	1·9	—1·4
	September	0	0	0	10	20	270·6	73	10·0	1	6·7	25	(c) 70·1	+2·9	58·0	30	5·3	—0·3
	October	0	0	0	7	24	284·7	81	10·2	1	7·6	7	(b) 49·2	—2·0	42·6	29	8·3	—0·1
	November	0	0	2	20	8	252·3	80	9·4	2, 8, 19	4·4	22	39·0	+1·1	27·5	28	7·9	—1·4
	December	1	7	5	18	0	166·3	53	8·7	1	0	15	(a) 57·6	+6·1	26·8	31	6·7	—2·2
	Year	6	18	40	148	153	2,936·2	66	12·1	..	0	...	54·7	+0·7	19·8	11	7·1	+0·2

*Records for 28 days. (a) Mean of 30 days. (b) Mean of 29 days (c) Mean of 28 days. (e) Mean of 26 days.

TABLE VIII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 15 STATIONS DURING EACH MONTH AND THE YEAR 1934.

Station, Latitude and Longitude.	Month.	Bright Sunshine. No. of days with duration. Nil.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours in the month.	Percentage of possible hours of sunshine in the month.	Duration in the month. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal Radiation Temperature (1½″ above ground). Mean minimum.	Departure from normal.	Lowest in the month.	Date.	Depression below the minimum in grass.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
QUETTA— Lat. 30° 10′ N. Long. 67° 01′ E.	January	1	2	2	10	16	252·5	78	10·7	31	0	9	(c)	...	...	...	...	...
	February	0	0	2	6	20	272·7	88	11·5	28	4·8	6	19·8	...	4·0	2	11·2	...
	March	0	4	3	10	14	242·1	65	11·9	11	0·2	4	(g) 26·0	...	11·2	2	10·6	...
	April	1	2	4	3	20	273·1	71	13·0	18,19	0	22	(h) 34·4	...	10·8	4	13·2	...
	May	0	1	1	8	21	310·9	73	13·9	29	2·8	10	(e) 40·6	...	11·8	9	13·5	...
	June	0	1	3	4	22	311·5	74	14·0	4 days	2·9	27	(e) 57·2	...	45·8	3	8·1	...
	July	0	0	1	2	28	354·9	83	13·9	4 days	5·5	9	(e) 62·0	...	54·4	16	7·8	...
	August	0	0	0	5	26	326·6	80	13·4	9	6·6	17	(c) 59·5	...	49·8	26	9·4	...
	September	0	1	0	2	27	328·7	89	12·6	10	1·2	20	(d) 38·2	...	29·9	25	12·0	...
	October	0	0	0	0	31	346·6	98	11·8	6 days	9·1	9	(h) 29·1	...	19·9	12	9·8	...
	November	0	2	2	5	21	270·6	85	11·0	2, 3, 4	0·1	22	...	...	...	...	...	...
	December *	3	3	7	11	6	183·7	60	10·4	2	0	13,15,22	...	...	...	...	...	...
	Year	5	16	25	66	252	3,473·8	78	14·0	...	0	...	...	...	...	...	...	...
DRIGH ROAD (KARACHI)— Lat. 24° 51′ N. Long. 67° 04′ E.	January	0	1	0	1	29	294·4	88	10·4	24	0·9	10	40·1	...	28·3	5	3·9	...
	February	0	0	0	6	22	269·4	85	10·7	20	6·9	26	51·4	...	37·5	4	3·3	...
	March	0	0	1	2	28	298·9	81	10·8	29	4·3	25	56·6	...	51·3	14	4·0	...
	April	0	0	0	1	29	318·4	84	11·7	26	8·1	23	66·0	...	57·7	15	3·5	...
	May	0	0	0	2	29	327·3	79	11·8	1	8·2	12	76·9	...	72·0	26	0·3	...
	June	1	3	3	10	13	226·8	56	11·3	12	0	26	76·2	...	73·2	26	5·0	...
	July	1	13	8	5	4	131·3	31	9·5	22	0	9	79·4	...	72·0	5	1·4	...
	August	3	13	10	5	0	98·8	25	7·8	13	0	5,19,20	79·5	...	77·0	5,29	0·9	...
	September	0	4	5	11	10	213·6	58	10·4	23	0·8	19	75·3	...	69·6	30	1·7	...
	October	0	0	0	4	27	304·7	85	10·7	15, 16, 19	8·2	3	68·5	...	54·2	14	2·5	...
	November	0	1	1	4	24	274·9	84	10·3	10, 11	1·8	22	58·3	...	50·5	28	2·4	...
	December	1	1	2	13	14	253·1	77	10·1	28, 30	0	24	54·4	...	43·8	29	2·3	...
	Year	6	36	30	64	229	3,011·6	68	11·8	...	0	...	64·8	...	28·3	1	2·6	...
JAIPUR— Lat. 26° 55′ N. Long. 75° 50′ E.	January	0	0	0	6	25	293·6	89	10·3	4 days	6·6	26	(a) 35·0	—1·5	17·0	22	8·6	—1·8
	February	0	0	0	3	25	281·4	91	10·9	21	7·3	26	33·8	—1·2	19·9	5	10·7	+0·3
	March	0	0	4	5	22	289·9	80	11·2	22, 24, 26	8·2	5	49·6	+0·5	38·5	16	8·9	—0·9
	April	0	0	0	3	27	316·4	83	11·9	16	7·4	23	(b) 57·5	—1·7	47·7	4	9·5	—0·3
	May	0	0	1	3	27	322·5	77	12·0	14, 24	4·4	17	68·3	—0·5	56·0	2	7·2	—0·7
	June	3	5	4	4	14	206·2	50	11·5	12	0	8, 26	76·2	+0·3	65·9	4	3·4	—1·0
	July	0	5	8	11	7	200·6	47	11·3	19	0·4	29	73·3	—1·9	68·1	18	3·8	+0·8
	August	3	12	9	5		116·3	29	10·1	11, 22	0	10, 15, 26	73·7	+1·0	70·2	22	1·4	—1·8
	September	1	1	5	5	18	246·2	67	11·2	29	0	7	68·9	+1·4	52·6	30	4·3	—0·8
	October	0	0	0	5	26	313·2	91	11·0	1	7·5	6	50·3	—4·7	40·7	30	9·8	+0·7
	November	0	0	0	4	26	296·9	91	10·4	6, 8	7·1	28	40·8	—2·8	33·4	26	10·2	—0·4
	December	2	3	2	8	16	238·3	73	10·2	1, 29, 31	0	18, 23	41·9	+5·2	30·2	31	8·1	—2·6
	Year	9	26	33	62	236	3,121·6	71	12·0	...	0	...	56·2	—0·4	17·0	1	7·1	—0·8

(*) Records for 30 days
(a) Mean of 30 days.
(b) Mean of 29 days.
(c) Mean of 28 days.
(d) Mean of 27 days.
(e) Mean for 26 days.
(g) Mean of 24 days.
(h) Mean of 23 days.
(k) Mean of 20 days.

TABLE VIII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 15 STATIONS DURING EACH MONTH AND THE YEAR 1934.

Station, Latitude and Longitude.	Month.	Bright Sunshine. No. of days with duration. Nil.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month.	Percentage of possible hours of sunshine in the month.	Duration in the month. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal Radiation Temperature (1½' above ground). Mean minimum.	Departure from normal.	Lowest in the month.	Date.	Depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
BOMBAY—	January	0	2	0	5	24	276·0	80	10·8	21	0·2	28	55·3	−3·5	39·5	31	8·8	+0·9
Lat. 18° 54′ N.	February	0	0	0	4	24	274·0	82	10·7	23	7·3	16	(j) 50·1	−0·8	50 4	2	8·9	+1·5
Long. 72° 49′ E	March	0	0	0	6	25	296·4	80	10·3	15, 16	8·1	1	64·0	−1·4	53·6	15	7·8	+1·4
	April	0	0	0	1	29	312·6	83	11·5	30	8·.	6	71·5	+0·4	66·3	3	5·9	+1·2
	May	0	0	0	0	31	340·7	84	11·6	31	10·5	5 days	(a) 75·2	−1·2	70·1	11	4·3	+1·4
	June	6	8	3	6	7	149·1	37	11·9	5	0	6 days	76·1	−0 7	73·1	8	2·0	+0·3
	July	9	9	11	2	0	67·6	17	7·5	23	0	9 days	74·9	−0·4	69·8	31	2·1	+0·8
	August	7	18	6	0	0	48·3	12	5·8	26	0	7 days	71·5	−2·9	69·9	23	4·7	+3·1
	September	4	3	9	10	4	155·3	42	9·5	20	0	4 days	(b) 73·7	+0·3	71·6	20	2·5	+0·4
	October	1	0	2	12	16	270·0	74	10·4	24	0	31	71·0	+0·4	65·0	28	5·5	+0·7
	November	2	1	0	3	24	264·6	78	10·4	5	0	1, 2	66·2	+1·3	60·0	9	5·2	- 2·2
	December	0	0	0	5	26	291·4	85	10·1	1,2,3	6·5	22	62·5	+2·0	57·3	31	7·6	—0·6
	Year	29	41	31	54	210	2,746·0	62	11·9	...	0	...	68 4	−0·6	39·5	I	5·5	+0·8
POONA—	January	0	1	4	4	22	282·3	82	10·8	24, 30	0·3	6	44·3	...	30·0	23	6·6	...
Lat. 18° 31′ N.	February	0	0	0	0	28	298·6	93	11·1	27	9·4	16	45·2	...	31·2	1	8·2	...
Long. 73° 51′ E.	March	0	0	0	4	27	313·7	84	11·0	4 days	8·1	18	51·1	...	42·7	1	8·6	...
	April	0	0	0	1	29	323·1	86	12·3	30	8·7	11	60·1	...	54·8	19	8·1	...
	May	0	0	0	0	31	371·2	92	12·6	31	9·2	15	62·0	...	54·1	7	7·7	...
	June	1	10	8	4	7	168·9	43	12·4	35	0	29	69·2	...	64·0	1	3·0	...
	July	5	15	7	4	0	7·87	19	7·7	17	0	5 days	69·0	...	66·0	4	2·2	...
	August	4	20	7	0	0	57·3	15	5·6	25	0	4 days	68·0	...	63·0	29	2·4	...
	September	3	8	9	5	5	139·9	38	10·8	24	0	6,7,8	65·0	...	58·9	24	3·5	...
	October	1	1	4	12	13	248·1	68	11·0	22,28	2·9	9	62·2	...	48·0	24	3·6	...
	November	2	1	0	1	26	278·4	83	10·8	9	0	1,2	48·8	...	38·0	30	5·5	...
	December	0	0	0	5	26	304·8	89	10·6	3,4,5	7·4	21	44·2	...	36·2	3	6·4	...
	Year	16	56	39	40	214	2,865·0	65	12·6	...	0	...	57·4	...	30·0	I	5·5	...
BANGALORE—	January	0	4	4	17	6	212·0	60	9·4	5 days	0·1	25	58·2	+3·4	51·2	16	2·0	—1·6
Lat. 12° 58′ N.	February	0	0	0	5	23	266·4	81	10·0	4 days	8·4	24	(e) 52·7	—3·9	45·8	8	6·2	+1·9
Long. 77° 36′ E.	March	0	0	0	11	20	283·0	76	10·4	21	7·1	12	...	...	...	...	...	...
	April	0	0	2	14	14	258·8	69	10·5	25	3·7	29	(g) 66·3	—0·2	59·0	1	3·4	+0·2
	May	0	0	1	15	15	274·0	70	10·7	23	5·7	13	68·2	+0·8	62·4	14	2·0	0
	June	2	9	9	12	1	141·2	37	9·8	4	0	11, 25	65·9	0	63·2	27	1·8	+0·5
	July	4	13	5	8	1	109·9	28	9·2	22	0	4 days	(b) 65·7	+0·6	63·0	22	1·2	0
	August	4	10	8	7	2	120·6	31	9·3	6	0	4 days	65·2	+0·4	62·3	31	1·4	+0 1
	September	0	5	7	15	3	187·7	51	10·1	2	1·3	3	(b) 64·3	—0·1	61·9	17	2·0	+0·5
	October	1	7	11	9	3	153·0	42	9·9	23	0	12	65·2	+2·3	62·9	22	1·9	—0·7
	November	-	5	5	10	8	185·3	54	9·9	10	0	27, 28	(j) 57·8	—1·3	46·8	14	3·5	+0 2
	December	0	3	2	13	13	243·6	69	9·7	4	1·7	6	56·1	+0 7	51·0	20	2·5	—0·9
	Year	12	56	51	136	109	2,436·0	55	10·7	...	0	...	...	...	45·8		...	...

(a) Mean of 30 days. (b) Mean of 29 days. (e) Mean of 26 day. (g) Mean of 24 days. (j) Mean of 21 days.

TABLE VIII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 15 STATIONS DURING EACH MONTH AND THE YEAR 1934.

Station, Latitude and Longitude.	Month.	Bright sunshine. No. of days with duration. Nil.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month.	Percentage of possible hours of sunshine in the month.	Duration in the month. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal radiation temperature (1½″ above ground). Mean minimum.	Departure from normal.	Lowest in the month	Date.	Depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
MADRAS. Lat. 13°04′N. Long 80°15′E.	January	0	7	5	7	12	206·8	58	10·9	28,30	0;3	24	67·4	+2·0	62·0	19	2·9	+0·3
	February	0	0	0	0	28	301·9	92	11·2	5 days	10·0	24,26	61·4	−4·6	52·8	12	5·1	+2·5
	March	0	0	0	3	28	299·8	80	10·5	4 days	7·1	6	66·8	−2·8	59·0	5	4·7	+2·4
	April	0	1	1	2	26	294·0	79	11·7	28	1·8	15	74·5	−1·4	64·8	1	3·1	+1·5
	May	0	0	0	2	29	335·0	85	11·9	15	8·0	24	79·4	−0·3	73·5	3	2·3	+0·9
	June	3	4	7	3	3	186·9	48	11·9	10	0	26, 27, 28	78·6	−1·5	72·0	9	1·7	+0·7
	July	5	7	3	7	9	172·8	43	11·5	14	0	5 days	77·0	−0·7	72·6	30	1·9	+0·8
	August	1	7	5	10	8	184·7	47	11·2	29	0	4	75·5	−1·1	71·4	7	2·1	+1·1
	September	2	0	2	13	13	239·5	67	10·4	11,22	0	5,6	75·7	−0·2	73·2	14	2·3	+1·4
	October	1	8	4	3	15	198·3	54	11·1	17	0	29	73·4	−0·3	70·2	31	2·0	+1·0
	November	1	3	2	11	13	231·5	67	11·1	13	0	26	66·9	−3·6	56·7	10	4·1	+2·6
	December	0	3	5	6	17	244·2	69	10·7	6,9,28	0·7	7,12	64·1	−3·2	58·3	29	4·2	+2·4
	Year	13	40	34	72	206	2,895·4	65	11·9	...	0	...	71·7	−1·5	52·8	11	3·1	+1·5
KODAIKANAL. Lat 10°14′N. Long. 77°28′E.	January	3	5	7	9	7	173·8	48	10·9	30	0·2	9	41·0	+3·1	29·6	28	6·6	−0·7
	February	0	0	1	0	27	295·6	89	11·3	16,24	4·8	7	37·0	−0·9	29·0	21	8·7	+1·3
	March	1	0	1	13	16	276·3	74	11·5	3,20	4·0	11	40·7	−0·2	31·9	5	7·4	+1·1
	April	0	0	5	8	17	257·5	69	11·5	8	3·3	19	45·0	0	36·9	1	7·0	+0·7
	May	0	1	2	14	14	256·7	66	10·9	26	2·3	14	47·8	+0·2	42·3	10	6·6	+1·1
	June	4	12	5	7	2	109·1	29	10·2	16	0·1	26	49·6	+1·0	45·0	4	3·2	−0·6
	July	2	10	10	6	3	137·6	35	10·1	21	0·3	7	48·4	−0·1	41·0	13	3·5	+0·8
	August	2	10	6	8	5	162·5	42	11·3	19	0·1	16	48·2	+0·3	44·0	26	4·9	+1·7
	September	0	1	10	15	4	204·8	56	10·7	12	2·3	25	45·4	−2·0	38·0	30	7·1	+4·0
	October	4	9	14	4	0	100·5	27	7·3	23	0·1	26	48·6	+2·2	42·7	1	3·5	−0·2
	November	2	8	5	7	8	170·7	49	10·3	20	0·2	6	42·1	−2·6	28·0	13	6·2	+1·8
	December	1	4	3	18	5	205·1	57	10·4	2	0·2	6	37·7	−2·8	30·1	11	7·8	+1·0
	Year	19	60	69	109	108	2,350·2	53	11·5	...	0·1	...	44·3	−0·1	28·0	XI	6·0	+1·0
TRIVANDRUM. Lat. 8° 29′N. Long. 76° 57′E.	January	3	8	4	9	7	169·3	47	11·0	1	0	15,24,28	...	...	...	...	...	...
	February	0	0	1	1	26	284·6	86	11·2	2	5·2	7	...	...	...	...	...	...
	March	1	4	5	8	13	223·5	60	10·6	20	0	12	...	...	...	...	...	...
	April	0	2	4	12	12	232·5	63	10·5	23	0·6	16	...	...	...	...	...	...
	May	0	1	5	15	10	246·1	64	10·8	3,16	1·7	15	...	...	...	...	...	...
	June	3	10	5	6	6	146·0	39	11·2	4	0	11,18,25	...	...	...	...	...	...
	July	2	9	7	2	11	179·0	46	10·9	12,15	0	22,28	...	...	...	...	...	...
	August	3	2	5	11	10	207·1	54	10·7	7	0	14,15,16	...	...	...	...	...	...
	September†	0	0	3	7	19	263·1	72	11·0	4	3·6	7	...	...	...	...	...	...
	October†	2	10	4	12	1	129·2	35	10·9	3	0	20,26	...	...	...	...	...	...
	November	0	4	5	7	14	229·4	65	11·2	12,13	0·3	9,27	...	...	...	...	...	...
	December*	0	0	2	6	22	288·4	80	11·1	8	5·8	11	...	...	...	...	...	...
	Year	14	50	50	96	151	2,598·2	59	11·2	...	0	...	...	...	...	...	...	...

* Records for 30 days. † Records for 29 days.

TABLE VIII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 15 STATIONS DURING EACH MONTH AND THE YEAR 1934.

Station: Latitude and Longitude.	Month.	Bright sunshine. No. of days with duration. Nil.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month.	Percentage of possible hours of sunshine in the month.	Duration in the month. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal Radiation Temperature (1¼" above ground). Mean minimum.	Departure from normal.	Lowest in the month.	Date.	Depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
ABADAN— Lat. 30° 21′ N. Long. 48° 16′ E.	January	0	10	3	13	5	179·4	55	9·6	28	0·4	20	...	...	...	...	...	...
	February (e)	1	7	4	3	11	157·3	54	10·5	27, 28	0	10	...	...	...	...	...	...
	March (b)	0	5	2	1	21	240·7	69	11·2	22	0·1	27	...	...	...	...	...	...
	April	0	2	7	4	18	264·2	68	12·0	30	1·7	4	...	...	...	...	...	...
	May (b)	0	2	4	9	14	259·3	65	12·5	18	1·4	3	...	...	...	...	...	...
	June	0	0	4	1	25	337·4	80	13·2	15, 16	5·3	22	...	...	...	...	...	...
	July	0	1	5	2	23	318·6	74	13·2	10	2·6	21	...	...	...	...	...	...
	August (b)	0	0	1	6	22	316·2	83	12·4	1	5·8	14	...	...	...	...	...	...
	September (d)	0	0	0	0	27	298·9	81	11·6	2,10	10·0	18	...	...	...	...	...	...
	October	0	0	0	7	24	302·5	85	10·8	1,5	7·1	31	...	...	...	...	...	...
	November	0	1	5	13	11	232·8	73	10·0	11	2·3	9	...	...	...	...	...	...
	December	2	6	2	16	5	198·6	62	9·5	31	0	3,30	...	...	...	...	...	...
	Year	3	34	37	75	206	3,105·9	70	13·2	...	10·0	...	...	...	...	...	...	...
SRINAGAR— Lat. 34° 05′ N. Long. 74° 50′ E.	January												24·8	+4·0	16·2	24	2·0	—5·0
	February												29·9	+7·5	18·2	5	2·9	—4·2
	March												33·1	+3·8	21·8	16	3·4	—4·4
	April												42·0	+5·9	33·5	15	3·3	—5·2
	May												45·0	+3·4	38·0	6, 14	3·8	—5·2
	June												54·4	+6·6	41·0	6	3·9	—5·4
	July												61·1	+6·2	50·4	11	3·9	—5·2
	August												59·3	+4·2	50·6	21	3·9	—4·8
	September												49·8	+5·4	37·0	30	3·4	—6·0
	October												32·7	+1·2	24·2	25	4·4	—5·0
	November												24·6	+3·4	12·4	29	4·6	—4·7
	December												26·4	+7·2	13·1	1, 3	2·9	—5·3
	Year												40·3	+4·9	12·4	XI	3·5	—5·1
PESHAWAR— Lat. 34° 01′ N. Long. 71° 35′ E.	January												(b) 25·4	...	13·7	22	9·9	...
	February												38·4	...	19·1	4	9·2	...
	March												(a) 43·9	...	33·7	16	8·2	...
	April												51·3	...	42·9	14	10·2	...
	May												58·2	...	50·5	13	10·6	...
	June												(c) 67·8	...	56·9	3	12·0	...
	July												(c) 75·9	...	60·4	7	6·4	
	August												(a) 75·1	...	66·2	19	3·7	...
	September												(b) 63·6	...	50·8	30	9·1	...
	October												55·0	...	35·3	11	3·5	...
	November												(b) 35·6	...	24·2	27	12·2	...
	December												(c) 35·5	...	26·2	31	9·0	...
	Year												52·1	...	13·7	I	8·7	...

(a) Records for 30 days. (b) Records for 29 days. (c) Records for 28 days. (d) Records for 27 days. (e) Records for 26 days.

TABLE IX.—MEAN HOURLY WIND VELOCITY FOR THE YEAR 1934.

Month.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
AGRA (71 FEET).																								
January	4·1	4·1	3·9	4·0	3·9	3·9	3·8	3·7	3·2	3·5	*4·3*	4·7	4·7	4·8	4·9	5·2	4·6	3·4	3·3	3·7	3·7	3·8	4·0	4·1
February	4·0	3·9	3·9	4·0	4·2	4·3	4·3	3·8	3·3	4·0	*5·3*	5·8	5·6	5·2	5·4	5·6	5·2	3·4	2·9	3·2	3·1	3·3	3·3	3·5
March	4·0	4·0	4·4	4·3	4·2	4·3	3·9	3·2	3·2	4·5	*5·6*	*6·1*	6·7	7·0	7·1	7·1	6·9	5·3	4·1	4·0	3·7	3·3	3·7	3·9
April	4·5	4·6	4·6	4·4	4·2	4·1	3·8	3·2	4·1	5·7	*6·8*	*7·7*	7·9	8·0	8·0	8·1	7·5	6·5	4·5	4·2	4·2	4·9	4·9	4·5
May	4·9	5·0	4·7	4·5	4·6	4·5	4·3	4·9	6·5	8·2	*8·1*	*9·1*	*9·5*	*9·7*	*9·3*	9·5	9·6	8·4	5·9	4·9	4·5	4·6	5·0	5·1
June	4·3	4·5	4·1	3·9	3·7	3·6	4·0	5·0	6·4	6·7	*6·1*	6·8	6·5	7·1	6·7	6·5	6·0	5·5	5·6	4·6	4·1	3·6	4·3	4·0
July	4·5	4·7	4·6	4·8	4·5	4·2	4·5	5·8	6·9	7·4	*6·4*	*6·6*	6·7	6·7	6·7	7·1	6·6	6·5	4·9	4·4	5·1	4·7	4·5	4·6
August	*3·5*	*3·5*	*3·0*	*3·2*	*3·6*	*3·9*	*4·1*	*4·6*	*5·4*	*5·2*	*5·3*	*5·5*	*6·0*	*5·9*	*6·9*	*5·9*	*5·4*	*4·7*	*4·5*	*3·9*	*3·7*	*3·3*	*3·4*	*3·2*
September	3·3	3·1	2·9	2·8	3·0	2·8	2·7	2·9	3·7	4·0	3·5	3·8	4·1	4·5	5·2	4·8	4·2	3·1	2·6	2·7	3·1	3·3	3·0	3·4
October	*3·6*	*3·6*	*3·4*	*3·4*	*3·6*	*3·4*	*3·3*	*2·7*	*2·7*	*3·3*	*4·2*	*4·7*	*5·0*	*5·4*	*5·9*	*5·9*	*4·9*	*3·5*	*3·0*	*3·2*	*3·1*	*3·1*	*3·4*	*3·3*
November	3·8	4·1	4·1	4·0	4·0	3·8	3·6	3·3	2·6	3·2	*4·1*	*5·1*	5·8	6·1	6·0	6·0	4·7	3·1	3·1	3·3	3·5	3·5	3·5	3·7
December	3·2	2·7	2·7	3·1	2·9	2·9	3·1	2·9	2·2	*2·4*	*3·2*	3·4	3·2	3·3	3·4	3·7	3·5	2·9	2·9	3·0	3·4	3·3	3·3	3·1
Year	4·0	4·0	3·9	3·9	3·9	3·8	3·8	3·8	4·2	4·8	5·3	5·8	6·0	6·1	6·3	6·3	5·8	4·7	3·9	3·8	3·8	3·7	3·9	3·9
LAHORE (64 FEET).																								
January	1·5	2·0	2·2	2·5	2·3	2·5	2 6	2·4	2·9	3·5	4·2	4·7	5 1	5·6	5·5	5·2	4·1	2·4	1·3	1·2	0·9	1·4	1·7	1·8
February	2·1	2·3	2·6	2·9	3·1	2·6	2·8	2·8	3·4	4·3	5 0	5·3	5·7	5·9	5·5	4·8	4·0	1·8	0·5	0·5	0·7	1·1	1·5	1·9
March	3·1	3·4	*3 2*	*3·4*	*3·5*	*3·8*	*3·7*	3.3	4·2	4·7	5·1	5·1	5·3	5·4	*4·9*	5·4	4·8	4·0	2·2	1·7	1·4	1·7	1·7	2·6
April	2·4	3·0	3·3	4·0	4·2	3·9	3·7	4·0	4·9	5·1	5·3	5·5	5·7	6·0	5·9	5·4	4 7	4 2	2·6	2·0	2·3	2·2	2·2	2·1
May	3·2	3·6	3 5	3·2	3·0	3·1	3·2	3·8	4·3	4·5	4·8	5·0	5·3	5·6	5·7	5·4	5·5	4·5	3·2	1·7	2·2	2·7	3·0	3·2
June	2·4	3 0	3 0	2·1	2·1	2·2	2·5	2·7	3·2	3·9	4·1	3·4	3·7	3·6	3·6	3·8	3·3	2·8	3·0	2·6	2·3	2·2	2·5	2·6
July	1·7	1.7	1 4	1·4	1·6	1·8	2·3	3·5	5·7	5·4	4·8	4·4	4·1	4·3	*4·6*	4·7	4·8	3·9	2·6	1·3	0·9	1·4	1·8	1·8
August	1·4	1·5	1·6	1·8	1·4	1·3	2·0	3·3	3·1	3·5	3·9	3·3	2·8	3·4	3·1	2·4	2·4	2·5	[illegible]	1·4	1·3	1·1	1·0	1·1
September	1·0	0·8	0·8	1·4	1·2	1·3	1·3	2·0	*3·0*	3·2	2·6	2·6	2·5	2·4	2·5	2·6	2·3	1·3	0·4	0·4	0·4	0·6	0·6	0·8
October	1·4	1·7	1·9	2·1	2·1	2·5	2·2	2·2	2·6	2·8	*2·2*	2·5	3·0	3·0	2·6	1·9	1·2	0·1	0·1	0 3	0·3	0·4	0·4	0·8
November	0·9	1·5	1·5	1·7	1·9	1·8	1·8	1·8	2·2	2·2	2·1	3·0	3·3	3·6	3·5	3·1	1·4	0·3	0·2	0·4	0·4	0·4	0·6	0·8
December	1·3	1·3	1·5	1·7	1·4	1·7	1 5	1·6	1·7	2·1	2·4	2·3	3.0	*2·6*	*2·8*	*2·2*	1 5	0·5	0·4	0·6	0·6	0·7	0·7	1·0
Year	1·9	2·1	2·2	2·3	2·3	2·4	2·5	2·8	3·4	3·8	3·9	4·0	4·1	4·3	4·2	3 9	3·3	2·4	1·5	1 2	1·1	1·3	1·5	1·7
PESHAWAR (46 FEET).																								
January	4·8	4·5	4·3	4·5	5·0	4·7	5·1	5·7	4·9	3·3	3·0	5·6	6·6	7·7	9·0	9·3	8·3	5·5	4·2	4·2	4·8	4·9	4·9	5·6
February	2·7	3·6	4·0	3·6	3·3	3·2	*4·0*	*4·3*	*3·1*	1·5	1·6	3·9	4·9	6·5	6·5	5·7	5·4	4·3	2·1	1·7	2·3	2·3	3·0	2·5
March	2·7	*2·5*	*2·3*	*2·3*	*2·8*	*3·0*	*3·1*	*2·9*	*2·0*	*1·8*	*2·9*	*4·6*	*5·7*	*5·9*	6·5	6·3	7·1	5·4	3·8	*3·2*	*3·9*	*4·8*	*4·3*	*2·6*
April	2·7	3·8	3·3	3·4	2·8	3·4	3·3	3·1	1·9	2·9	3·2	5·1	5·9	6·7	6·7	6·8	5·9	4·5	4·8	3·6	3·6	3·4	3·0	2·8
May	*7·4*	*5·4*	*6·6*	*6·2*	*5·8*	*5·9*	*4·4*	3·9	4·4	6·1	7·4	9·2	11·3	*11·9*	*11·7*	*10·7*	*9·3*	*8·9*	*8·2*	*6·6*	*7·6*	*9·2*	*9·2*	*8·7*
June	3·6	*4·1*	*3·6*	*3·9*	*3·0*	*3·6*	*3·7*	3·4	3·6	5·8	8·2	9·4	9·8	10·7	11·4	11·9	11·0	12·1	10·0	7·3	5·2	5·1	6·1	5·2
July	3·5	2·5	3·0	3·1	2·4	2·1	2·5	4·5	8·2	10·1	11·0	11·5	10·9	11·9	13·9	13·9	15·6	14·4	13·9	11·9	10·3	7·9	6·5	5·1
August	2·5	*3·2*	*3·5*	*3·6*	*4·4*	5·1	3·7	4·1	5·4	6·2	6·5	10·0	11·2	13·0	15·1	16·1	14·2	14·2	13·3	9·2	5·5	2·9	3·0	2·2
Sptember	*1·7*	*1·9*	*1·6*	*2·1*	*1·9*	2·2	2·2	1·7	2·3	4·3	6·7	10·7	12·7	13·7	14·6	13·9	13·6	10·8	*5·6*	3·0	*3·0*	*2·1*	*1·8*	*1·4*
October	*7·5*	*7·4*	*9·0*	*9·9*	*10·7*	*9·7*	*10·0*	*9·7*	*5·7*	*2·2*	*7·6*	*11·3*	12·9	14·4	14·4	13·9	*12·6*	*9·0*	*3·2*	*3·7*	*7·8*	*8·9*	*8·4*	*8·0*
November	*6·3*	*6·3*	*7·2*	*6·2*	*6·6*	*6·5*	*7·2*	*6·7*	*3·8*	*2·8*	*5·6*	*9·2*	*10·4*	*11·8*	*12·0*	*12·2*	*10·2*	*4·2*	*2·8*	*4·7*	*7·0*	*6·7*	*6·1*	*6·5*
December	*3·5*	*2·9*	*2·8*	*3·3*	*3·7*	*4·1*	*4·5*	*3·9*	*4·2*	*1·9*	*0·8*	*3·0*	*5·4*	*6·7*	*6·5*	*4·8*	*3·4*	*1·9*	*1·7*	*2·6*	*3·5*	*3·7*	*3·6*	*3·8*
Year	4·1	4·0	4·3	4·3	4·4	4·5	4·5	4·5	4·1	4·1	5·4	7·8	9·0	10·1	10·7	10·4	9·7	7·9	6·1	5·1	5·4	5·1	5·0	4·5

"Figures in italics are means of data which are not available for a complete month."

TABLE IX.—MEAN HOURLY WIND VELOCITY FOR THE YEAR 1934.

Month.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
QUETTA (40 FEET).																								
January	4·9	4·4	4·3	4·3	4·5	4·0	4·0	4·0	4·0	4·5	4·4	4·3	4·6	5·3	6·6	7·0	7·0	6·6	5·8	4·9	4·5	4·5	4·8	5·4
February	4·4	4·1	4·2	4·1	4·0	4·0	3·6	3·7	4·6	3·7	3·4	4·2	4·6	5·6	7·6	8·3	8·6	8·1	6·4	4·9	4·3	3·9	4·0	4·3
March	5·2	4·4	4·1	4·5	4·5	3·7	3·7	3·8	3·9	4·4	5·3	5·7	6·3	6·8	7·1	7·1	7·5	7·2	7·3	6·3	5·7	5·1	5·0	5·0
April	*4·4*	*3·8*	*4·0*	*3·7*	*3·6*	*3·3*	*3·5*	*3·6*	*3·2*	4·3	6·0	7·1	8·2	8·4	8·7	*9·1*	*9·4*	*10·2*	*9·8*	*8·1*	*6·8*	*5·4*	*4·5*	*5·0*
May	*5·0*	*4·7*	*4·1*	*3·4*	*3·7*	*4·0*	*4·3*	*4·1*	*5·0*	6·0	6·6	*8·2*	*9·1*	*9·6*	*9·7*	*10·2*	*10·1*	*10·2*	*10·0*	*8·7*	*6·9*	*5·5*	*4·9*	*4·9*
June	*6·1*	*6·0*	*5·7*	*5·8*	*5·2*	*4·7*	*4·3*	*3·6*	*3·6*	4·3	5·7	*7·1*	7·8	8·7	8·8	9·1	9·4	9·5	9·7	*9·3*	*7·6*	*6·6*	*6·6*	*6·5*
July	*7·6*	*7·1*	*6·4*	*5·4*	*4·7*	*3·8*	*3·8*	*3·0*	*3·3*	3·2	*3·2*	3·4	4·3	4·9	5·1	5·6	6·3	7·7	*8·8*	*8·7*	*8·2*	*8·6*	*7·7*	*7·7*
August	8·0	7·4	6·8	5·8	5·4	4·4	4·0	3·5	3·6	3·5	3·6	3·8	4·8	5·4	5·8	6·7	7·4	8·2	9·5	9·3	7·2	7·3	8·3	8·1
September	3·2	3·3	3·2	3·2	3·3	3·4	3·2	2·8	2·4	2·1	2·4	3·6	5·4	6·0	5·9	6·3	6·9	7·4	7·5	5·7	3·7	2·5	2·4	2·9
October	3·0	*3·1*	*3·5*	*3·6*	*3·5*	*3·5*	*3·0*	*3·1*	2·6	2·0	2·6	*3·5*	5·5	7·3	8·0	8·2	8·8	8·5	5·9	3·5	2·8	2·9	2·9	2·9
November	*3·4*	*3·2*	*3·1*	*3·3*	*3·1*	*3·2*	*3·1*	*3·2*	*3·0*	2·6	2·9	*3·7*	*4·9*	*6·2*	*7·1*	*7·4*	*8·0*	*8·0*	*6·2*	*4·2*	*3·3*	*3·3*	*3·6*	*3·4*
December	*4·7*	*4·7*	*4·4*	*4·1*	*3·9*	*3·6*	*3·8*	*3·5*	3·3	3·4	3·5	3·8	4·6	4·7	4·8	5·1	5·2	5·3	4·8	4·5	*4·4*	*4·3*	*4·6*	*4·6*
Year	5·0	4·7	4·4	4·3	4·1	3·8	3·7	3·5	3·5	3·7	4·1	4·9	5·8	6·6	7·1	7·5	7·9	8·1	7·6	6·5	5·5	5·0	4·9	5·1
MADRAS.																								
January	12·4	12·3	12·2	11·7	11·4	11·5	11·5	11·3	11·4	12·1	12·9	13·9	14·0	13·9	14·3	14 4	14·2	14·4	13·9	13·5	13·8	13·5	13·3	12·8
February	9·2	9·2	8·8	7·9	7·8	7·5	7·6	7·0	6·6	7·8	9·0	9·5	10·4	11·0	11·0	11·0	11·0	10·8	10·7	10·5	10·8	10·5	10·4	10·0
March	9·4	8·3	7·7	7·4	7·0	6·5	6·5	6·3	5·9	7·4	8 4	10·1	10·6	11·4	11·7	11·8	11·8	11·5	11·3	11·3	11·0	11·0	10·8	10·2
April	11·3	10 2	10·1	9 4	9·7	9·8	9·6	10·1	10·8	12·1	13·1	14·7	14 8	14·7	14·0	13·6	13·4	12·9	13·0	12·7	12·4	12·7	12·5	11·8
May	13 1	12·5	12·2	12·4	12·3	11·9	11·0	12·7	13·6	14·2	14·8	15·5	15·9	16·1	15·8	15·8	15·4	14 6	14·7	15·2	15·4	15·2	15·0	14·2
June	12 5	11·7	11·3	11·1	11·0	10·9	10·8	11·8	12·7	13·8	14·2	14·5	14·4	15·0	14·9	14·0	13·5	13·2	12·9	12·7	13·0	12·6	12·9	12 7
July	10·8	9·8	9·3	9·3	8·5	8·2	8·1	8·9	10·5	12·1	12·9	12·8	12·4	11·9	11·7	11·8	11·9	11·5	10·6	10·1	10·1	10·9	11·9	11·4
August	10·3	10·0	10·2	9·9	9·5	9·7	9·7	9·9	10·8	11·6	12·3	12·7	12·7	12·4	12·0	12·1	12·3	11 7	11·3	12·0	12·1	11·8	10·9	10·7
September	10·8	10·8	10·2	9·5	8·9	9·3	8·9	9·5	10·6	10·8	10·7	10·4	10·3	10·0	10·4	10·7	10·8	10·7	10·6	10·7	11·3	11·5	11·0	10·8
October	9·5	8·7	8·3	7·9	8·1	7·9	7·4	7·7	7·7	8·2	9·3	9·6	10·2	11 0	11·3	10·9	10·8	10·9	10·3	9·7	9·6	9·2	9·1	9·0
November	10·0	10·0	9·6	9·3	9·0	9·3	9·3	8·7	9·3	10·8	12·2	13·1	13·3	13·6	13·8	13·8	13·3	13·1	12·7	12·5	12·5	12·1	11·3	11·3
December	13·0	12·3	11·6	11·1	11·5	11·8	12·1	11·7	11·9	12·6	13·7	14·5	14·3	14·2	14·3	14·5	14·6	14·7	14·1	14·4	14·2	14·1	13·9	13·0
Year	11·0	10·5	10·1	9·7	9·6	9·5	9·5	9·6	10·2	11·1	12·0	12·6	12·8	12·8	12·9	13·0	12·7	12·5	12·2	12·1	12·2	12·1	11·9	11·5
KODAIKANAL.																								
January	9·4	9·1	9·3	9·2	9·0	9·1	9·3	9·3	9·0	9·3	9·2	9·4	8·9	8·8	7·6	7·1	7 0	6·6	7·0	7·6	8·4	9·0	9·4	9·6
February	8·6	9·0	9·4	9·6	9·5	9·6	9·7	9·2	9·9	10·4	10·1	10·2	9·5	8·8	7·8	5·8	4·0	3·7	4·1	5·3	6·6	7·5	8·1	8·3
March	6·9	6·6	7·1	7·6	7·3	7·2	7·0	7·1	8·2	8·3	8·9	8·7	8·3	7·2	6·3	5·1	3·8	2·5	1·6	1·8	2·9	4·0	5·8	6·1
April	6·7	6·6	6·6	6·3	5·9	6·4	6·1	6·8	7·3	9·0	9·7	9·4	9·0	8·5	7·7	6·8	5·5	4·3	5·3	6·1	5·8	5·1	6·2	6·2
May	3·9	4·0	3·8	4·0	4·1	4·3	3·9	4·8	5·5	6·1	6·9	7·0	6·7	5·6	5·2	4·4	3·9	3·5	2·8	3·4	3·5	4·1	4·5	4 3
June	8·3	8·3	7·9	8·7	8·7	9·0	8·4	8·3	7·6	7·7	7·7	7·6	8·1	8·1	7·9	7·6	7·9	·3	9·4	8·7	9·9	9 2	9·5	9·5
July	8·9	9·1	8·9	9·2	9·3	9·1	9·0	8·7	8 0	7·7	7·4	7·0	6·8	6·4	6·5	6·7	7·6	7·8	8·5	8·9	8·7	9·2	8·9	9·0
August	7·5	7·2	7·0	7·0	7·7	7·4	7·4	6·4	5·6	4·4	4·8	4·9	4·7	4·2	4·5	4·3	4·4	4 5	5·4	5·8	5·9	6·1	6·2	6·3
September	4·4	4·6	4·8	4·7	6·5	4·7	4·9	4·2	4 2	3·3	3·2	2·6	2·7	2·6	2·9	2·8	2·6	2 7	2·5	2·5	2·9	3·3	3·3	3·7
October	4 1	3·9	4·2	4·3	4·3	4·2	4·1	4·4	4·4	3·9	4·2	4·0	4·3	3·7	3·9	3·6	3·4	3·3	3·6	4·0	3·7	4·3	4 4	4·3
November	4·8	5·0	5·0	5·0	5·4	4·8	5·0	4·6	5·1	4·0	4·5	4·5	4·1	3·7	3·7	3·0	3·0	3 1	3·9	4·5	4·4	4·4	4·5	4 7
December	4·1	4·0	4·3	4·4	4·5	4·9	4·7	4·4	4·0	3·3	3·1	3·1	3·0	3·0	2·6	2·1	1·6	2·2	3·4	4·0	4·0	4·3	5·1	4·7
Year	6·5	6·5	6·5	6·7	6·7	6·7	6·6	6·5	6·6	6·5	6·6	6·5	6·3	5·9	5·6	4·9	4·6	4·4	4·9	5·2	5·6	5·9	6·3	6·4

"Figures in italics are means of data which are not available for a complete month."

TABLE X.—NUMBER OF DAYS IN EACH MONTH ON WHICH THE NILGIRIS WERE VISIBLE FROM KODAIKANAL IN 1934.

Month. 1	Very clear. 2	Visible. 3	Just visible. 4	Top only visible. 5	Total. 6
January	1	8	4	7	20
February	..	7	1	5	13
March	..	..	1	..	1
April	..	..	..	3	3
May	..	3	..	..	3
June	..	6	..	9	15
July	..	4	..	..	4
August	..	6	..	..	6
September	..	13	1	1	15
October	..	8	..	..	8
November	..	16	..	1	17
December	..	14	..	3	17
Year	1	85	7	29	122

TABLE XI.—AVERAGE OVER THE 15 CHIEF POLITICAL DIVISIONS OF THE

Division.	January.			February.			March.			April.			May			June.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	"	"		"	"		"	"		"	"		"	"		"	"	
Burma .	0·05	—0·06	—55	0·46	+0·24	+109	0·12	—0·36	—75	2·76	+1·44	+109	3·99	—4·74	—54	13·39	—2·54	—16
Assam . .	0·70	+0·02	+3	3·14	+1·59	+103	1·17	—2·86	—71	11·22	+2·18	+24	17·87	+5·84	+49	25·50	+7·62	+43
Bengal . .	0·37	+0·03	+9	1·43	+0·48	+51	0·08	—1·58	—95	2·55	—0·75	—23	5·88	—1·81	—24	14·97	+0·48	+3
Bihar and Orissa .	0·85	+0·33	+63	0·37	—0·56	—60	0·15	—0·59	—80	0·39	—0·43	—52	0·76	—1·75	—70	6·80	—1·71	—20
United Provinces.	1·33	+0·57	+75	0·08	—0·60	—88	0·82	+0·35	+74	0·05	—0·20	—80	0·09	—0·59	—87	5·54	+1·15	+26
Punjab . .	0·63	—0·37	—37	0·10	—0·79	—89	1·48	+0·63	+74	0·21	—0·33	—61	0·16	—0·41	—72	2·12	+0·38	+22
North-West Frontier Province.	0·51	—0·75	—60	0·18	—1·02	—85	2·36	+0·50	+27	0·71	—0·84	—54	0·72	—0·07	—9	1·53	+0·71	+82
Sind . . .	0·01	—0·22	—96	0	—0·29	—100	0·18	—0·05	—22	0·01	—0·10	—91	0·05	—0·12	—71	2·17	—1·66	—325
Rajputana . .	0·16	—0·14	—47	0	—0·27	—100	0·61	+0·41	+205	0·01	—0·15	—94	0·03	—0·47	—94	3·96	+1 73	+78
Bombay .	0·07	—0·05	—42	0	—0·08	—100	0·05	—0·06	—55	0·31	—0·07	—18	0·21	—0·83	—80	11·97	+3·22	+37
Central India .	0·57	+0·11	+24	0	—0·38	—100	0·38	+0·16	+73	0·01	—0·16	—94	0·01	—0·47	—98	5·52	+0·64	+13
Central Provinces.	0·14	—0·31	—69	0	—0·80	—100	0·09	—0·44	—83	0·22	—0·25	—53	0·01	—0·66	—99	8·38	+0·50	+6
Hyderabad .	0·06	—0·15	—71	0	—0·28	—100	0·09	—0·34	—79	0·87	+0·19	+28	0·10	—0·79	—89	3·80	—1·16	—23
Mysore . .	0·24	+0·12	+100	0·02	—0·11	—85	0·03	—0·28	—90	1·63	+0·17	+12	1·99	—1·59	—44	5·35	+0·55	+11
Madras . .	2·55	+1·81	+245	0·02	—0·42	—95	1·76	+0·05	+7	1·62	—0·14	—8	1·81	—1·74	—49	9·14	+1·20	+15
Mean of India .	0·59	+0·14	+31	0·31	—0·24	—44	0·48	—0·22	—31	1·33	+0·11	+9	1·94	—1·21	—38	8·52	+0·58	+7

MONTHLY AND ANNUAL RAINFALL, WITH ITS DEPARTURE FROM NORMAL IN 1934.

JULY.			AUGUST.			SEPTEMBER.			OCTOBER.			NOVEMBER.			DECEMBER.			YEAR.		
Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
"	"		"	"		"	"		"	"		"	"		"	"		"	"	
17·28	—0·04	0	17·78	+0·62	+5	14·50	+2·30	+19	6·78	+0·28	+4	2·72	+0·51	+23	0·10	—0·38	—79	79·93	—2·53	—3
21·09	+2·37	+13	14·66	—2·20	—13	10·60	—2·01	—16	8·14	+2·38	+41	2·78	+1·84	+196	0·33	—0·05	—13	117·20	+16·72	+17
14·29	—0·64	—4	11·21	—2·82	—20	8·99	—1·89	—17	6·37	+1·32	+26	1·05	+0·27	+35	0·64	+0·48	+300	67·88	—6·48	—9
14·63	+2·02	+16	12·53	—0·41	—3	9·82	+1·19	+14	2·55	—0·57	—18	0·37	—0·23	—38	0·13	0	0	49·35	—2·71	—5
11·94	+0·44	+4	12·31	+1·11	+10	6·89	+0·51	+8	0·18	—1·16	—87	0·03	—0·14	—82	0·33	+0·04	+14	39·59	+1·48	+4
4·80	—0·55	—10	6·47	+0·97	+18	0·50	—2·30	—82	0	—0·31	—100	0	—0·12	—100	0·41	+0·02	+5	16·88	—3·18	—16
3·52	+0·92	+35	2·96	—0·25	—8	0·49	—0·72	—60	0	—0·34	—100	0·03	—0·27	—90	0·76	+0·21	+38	13·82	—1·92	—12
2·92	+0·18	+7	1·33	—0·64	—32	0	—0·64	—100	0	—0·06	—100	0	—0·06	—100	0·08	0	0	6·80	—0·34	—5
4·31	—2·42	—36	13·79	+6·99	+103	2·89	—0·39	—12	0	—0·46	—100	0·06	—0·07	—54	0·34	+0·17	+100	26·16	+4·93	+23
12·40	—2·49	—17	13·26	+3·70	+39	4·92	—1·57	—24	1·35	—1·17	—46	1·96	+1·22	+165	0	—0·18	—100	46·50	+1·64	+4
9·25	—1·62	—16	17·63	+6·06	+52	12·19	+6·63	+119	0·06	—0·89	—94	0·74	+0·32	+76	0·31	+0·12	+63	46·67	+10·32	+28
13·37	+0·21	+2	15·59	+3·27	+27	12·85	+5·69	+79	0·98	—0·98	—50	1·27	+0·77	+154	0·14	—0·18	—56	53·04	+6·82	+15
10·04	+2·84	+39	7·70	+1·04	+16	5·60	—2·05	—27	0·56	—2·02	—78	1·88	+0·99	+111	0	—0·27	—100	30·70	—2·00	—6
5·39	—1·77	—25	4·91	—0·32	—6	0·96	—4·23	—82	7·30	+2·00	+38	1·47	—0·96	—40	0·02	—0·43	—96	29·31	—6·85	—19
6·71	—1·61	—19	5·74	—0·94	—14	2·51	—3·52	—58	9·76	+2·03	+26	3·37	—2·62	—44	0·40	—1·69	—81	44·39	—7·59	—15
10·96	—0·33	—3	11·81	+1·44	+14	7·20	+0·15	+2	3·18	—0·09	—3	1·38	+0·09	+7	0·24	—0·22	—48	47·94	+0·20	0

TABLE XII—AVERAGE OVER THE 33 SUB-DIVISIONS OF THE MONTHLY AND ANNUAL

SUB-DIVISION.	JANUARY.					FEBRUARY.					MARCH.				
	RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1. Bay Islands	0·5	—0·8	0·15	—1·05	—87	2·0	+1·3	3·41	+2·92	+596	0·5	—0·2	0·13	—0·22	—71
2. Lower Burma	0·2	—0·1	0·05	—0·06	—55	0·3	0	0·12	—0·11	—48	0·3	—0·4	0·20	—0·34	—63
3. Upper Burma	0·1	—0·2	0·04	—0·07	—64	1·9	+1·3	0·75	+0·53	+241	0·2	—0·8	0·06	—0·36	—86
4. Assam	1·7	+0·1	0·70	+0·02	+3	5·7	+2·3	3·14	+1·59	+103	1·6	—4·8	1·17	—2·86	—71
5. Bengal	1·0	+0·2	0·37	+0·03	+9	2·4	+0·8	1·43	+0·48	+51	0·2	—2·3	0·08	—1·58	—95
6. Orissa	0	—0·8	0	—0·46	—100	0·2	—1·6	0·07	—1·10	—94	0·6	—1·3	0·30	—0·79	—72
7. Chota Nagpur	1·9	+0·5	0·94	+0·19	+25	0·7	—1·4	0·43	—0·72	—63	0·3	—1·6	0·09	—0·83	—90
8. Bihar	2·7	+1·8	1·24	+0·81	+188	1·1	—0·4	0·50	—0·20	—29	0·3	—0·8	0·11	—0·37	—77
9. United Provinces, East	2·5	+1·1	1·33	+0·70	+111	0·1	—1·2	0·04	—0·51	—93	1·5	+0·7	0·54	+0·22	+67
10. Do. do. West	3·3	+1·4	1·33	+0·46	+53	0·3	—1·3	0·11	—0·69	—86	2·1	+0·8	1·06	+0·47	+80
11. Punjab, East and North	2·3	+0·1	0·80	—0·40	—33	0·3	—1·7	0·11	—0·89	—89	2·8	+0·9	1·61	+0·70	+77
12. Do. Southwest	0·4	—0·8	0·12	—0·39	—76	0·1	—1·2	0·05	—0·49	—91	3·1	+1·4	0·09	+0·43	+65
13. Kashmir	5·8	+0·7	3·56	—0·05	—1	1·9	—3·1	1·13	—2·38	—68	4·9	—1·5	2·82	—1·73	—38
14. North-West Frontier Province	1·3	—1·1	0·51	—0·75	—60	0·6	—2·0	0·18	—1·02	—85	4·8	+1·2	2·36	+0·50	+27
15. Baluchistan	0·7	—1·9	0·34	—0·85	—71	0	—2·9	1·01	—1·17	—99	2·2	—0·6	0·86	—0·35	—29
16. Sind	0·1	—0·5	0·01	—0·22	—96	0	—0·7	0	—0·29	—100	0·7	+0·2	0·18	—0·05	—22
17. Rajputana, West	0·2	—0·3	0·04	—0·15	—79	0	—0·5	0	—0·23	—100	1·0	+0·5	0·44	+0·26	+144
18. Do. East	0·9	0	0·23	—0·13	—36	0	—0·7	0	—0·29	—100	1·3	+0·7	0·71	+0·49	+223
19. Gujarat	0	—0·2	0	—0·09	—100	0	—0·2	0	—0·10	—100	0·1	—0·1	0·02	—0·05	—71
20. Central India, West	0·9	+0·1	0·40	0	0	0	—0·7	0	—0·30	—100	0·9	+0·5	0·28	+0·11	+65
21. Do. do. East	2·1	+0·7	1·15	+0·48	+72	0	—1·4	0	—0·67	—100	1·8	+0·9	0·70	+0·31	+79
22. Berar	0·6	—0·1	0·16	+0·01	+7	0	—0·7	0	—0·36	—100	0	—0·7	0	—0·33	—100
23. Central Provinces, West	0·8	—0·3	0·26	—0·39	—60	0	—1·4	0	—0·70	—100	1·0	—0·2	0·21	—0·36	—63
24. Do. do. East	0·1	—0·8	0·04	—0·43	—91	0	—1·8	0	—1·12	—100	0·2	—1·1	0·06	—0·56	—90
25. Konkan	0	—0·2	0·01	—0·09	—90	0	—0·1	0	—0·05	—100	0	—0·1	0·02	—0·04	—67
26. Bombay Deccan	0·3	0	0·13	—0·02	—13	0	—0·2	0	—0·09	—100	0·2	—0·1	0·07	—0·07	—50
27. Hyderabad, North	0·4	0	0·10	—0·12	—55	0	—0·6	0	—0·30	—100	0·2	—0·6	0·16	—0·27	—63
28. Do. South	0	—0·3	0·01	—0·19	—95	0	—0·5	0	—0·26	—100	0·1	—0·6	0·01	—0·42	—98
29. Mysore	0·7	+0·5	0·24	+0·12	+100	0	—0·2	0·02	—0·11	—85	0·1	—0·5	0·03	—0·28	—90
30. Malabar	4·7	+3·5	3·14	+2·26	+257	0·2	—0·7	0·07	—0·47	—87	3·8	+1·4	2·23	+0·79	+55
31. Madras, Southeast	5·0	+3·7	4·12	+3·13	+316	0	—0·7	0	—0·47	—100	0·7	—0·1	0·45	—0·05	—10
32. Do. Deccan	0·2	—0·2	0·07	—0·14	—67	0	—0·2	0·01	—0·13	—93	0	—0·4	0	—0·21	—100
33. Do. Coast, North	0·2	—0·3	0·17	—0·21	—55	0	—0·7	0·01	—0·39	—97	0·2	—0·6	0·07	—0·43	—86

RAINFALL AND NUMBER OF RAINY DAYS WITH THEIR DEPARTURES FROM NORMAL IN 1934.

APRIL.					MAY.					JUNE.					JULY.				
RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
7·0	+4·5	4·69	+3·14	+203	4·5	—8·8	2·57	—9·74	—79	22·0	+3·5	21·72	+4·50	+26	15·0	—3·5	12·25	—2·13	—15
4·0	+2·1	4·33	+3·43	+245	7·7	—4·9	6·48	—5·59	—46	22·1	—0·1	18·70	—6·81	—27	24·0	—0·1	26·41	—2·90	—10
2·3	—0·2	1·03	—0·24	—19	3·8	—4·2	1·90	—4·03	—68	12·0	+1·1	8·92	+1·04	+13	13·2	+2·8	9·54	+2·40	+34
12·5	+0·5	11·22	+2·18	+24	18·2	+4·2	7·87	+5·84	+49	20·6	+2·9	25·50	+7·62	+43	19·8	+0·7	21·09	+2·39	+13
3·9	—0·6	2·55	—0·75	—23	7·7	—1·0	6·88	—1·31	—24	14·4	+0·1	14·97	+0·43	+3	16·2	—0·4	14·29	—0·64	—4
0·6	—1·8	0·29	—1·06	—79	1·4	—3·5	1·02	—2·25	—69	12·2	+0·7	8·97	—0·80	—8	15·7	+0·5	12·79	—0·23	—2
1·3	—0·2	0·51	—0·19	—27	0·9	—2·8	0·38	—1·71	—82	10·4	—0·2	6·07	—2·76	—31	16·5	+1·3	13·48	+0·60	+5
0·9	—0·3	0·38	—0·21	—36	1·4	—1·9	0·80	—1·51	—65	7·9	—0·7	6·09	—1·66	—21	13·1	—0·4	16·06	+3·78	+31
0·1	—9·4	0·03	—0·16	—84	0·1	—1·2	0·03	—0·65	—96	6·9	+1·4	5·42	+0·62	+13	12·8	+0·2	13·14	+1·56	+13
0·2	—0·6	0·06	—0·24	—80	0·3	—1·2	0·15	—0·52	—78	7·1	+2·3	5·65	+1·61	+40	11·0	—0·4	10·90	—0·53	—5
0·7	—0·5	0·20	—0·35	—64	0·5	—0·9	0·16	—0·46	—74	4·0	+1·1	2·31	+0·28	+14	6·6	—0·1	5·73	—0·52	—8
0·8	—0·5	0·23	—0·29	—56	0·7	—0·3	0·19	—0·25	—57	2·7	+1·2	1·53	+0·71	+87	1·7	—1·4	1·89	—0·61	—24
5·1	—0·6	2·70	—0·81	—23	3·6	—0·2	1·18	—0·79	—40	3·4	—0·9	2·75	+0·21	+8	8·1	+0·2	6·80	—0·50	—7
2·1	—1·1	0·71	—0·84	—54	2·0	+0·3	0·72	—0·07	—9	2·4	+0·7	1·58	+0·71	+82	4·2	+0·6	3·52	+0·92	+35
0·3	—0·9	0·22	—0·47	—68	0·7	0	0·21	—0·08	—28	2·5	+1·9	1·41	+1·11	+370	1·6	—0·1	0·99	+0·01	+1
0	—0·3	0·01	—0·10	—91	0·2	—0·1	0·05	—0·12	—71	3·5	+2·8	2·17	+1·66	+325	2·3	—0·3	2·92	+0·18	+7
0	—0·4	0·01	—0·15	—94	0·3	—0·6	0·08	—0·35	—81	4·1	+2·1	2·75	+1·45	+112	3·1	—1·4	2·15	—1·28	—37
0·1	—0·3	0·02	—0·14	—87	0	—1·3	0·01	—0·53	—98	6·9	+3·0	4·61	+1·87	+68	7·9	—1·9	5·48	—3·03	—36
0	—0·1	0·01	—0·02	—67	0	—0·6	0	—0·33	—100	9·0	+3·5	8·56	+3·44	+67	10·6	—1·8	8·46	—4·11	—33
0	—0·3	0·01	—0·14	—93	0	—1·1	0·01	—0·47	—98	6·5	+0·6	5·14	+0·30	+6	11·7	0	9·22	—1·31	—12
0·1	—0·4	0·03	—0·21	—87	0	—1·1	0	—0·45	—100	9·6	+3·9	6·81	+1·79	+36	12·6	—1·2	9·35	—3·53	—27
0·3	—0·4	0·14	—0·10	—42	0	—1·2	0·02	—0·53	—96	9·0	+1·0	5·49	—0·58	—10	13·3	+1·1	10·35	+1·17	+13
0·3	—0·4	0·15	—0·15	—50	0	—1·4	0	—0·59	—100	10·9	+2·3	8·68	+1·37	+19	16·3	+1·5	13·02	—0·80	—2
1·0	—0·6	0·33	—0·40	—55	0	—1·8	0·01	—0·78	—99	11·4	+1·4	9·76	+0·42	+4	17·4	+1·2	15·34	+0·06	0
0·5	—0·2	0·28	—0·10	—26	0·3	—1·6	0·16	—1·42	—90	19·3	+0·9	39·01	+13·67	+54	27·6	+1·7	32·02	—6·86	—18
1·1	—0·2	0·53	—0·08	—13	0·8	—1·6	0·36	—0·96	—73	7·4	—0·5	4·54	—0·68	—13	12·4	+1·2	7·97	+0·14	+2
2·2	+0·9	1·08	+0·55	+104	0·3	—1·3	0·11	—0·66	—86	6·9	—0·8	3·96	—1·52	—28	14·6	+3·0	10·97	+3·06	+39
1·8	0	0·65	—0·20	—24	0·3	—1·9	0·08	—0·95	—92	6·1	—0·8	3·62	—0·76	—17	14·2	+3·5	9·02	+2·61	+41
2·4	—0·3	1·63	+0·17	+12	4·0	—1·6	1·99	—1·59	—44	7·3	+0·1	5·35	+0·55	+11	8·6	—1·1	5·39	—1·77	—25
4·5	—1·1	3·11	—0·66	—18	6·2	—2·7	3·75	—3·52	—48	20·7	+0·4	27·97	+4·29	+18	18·0	—1·9	13·88	—8·31	—37
2·0	0	1·37	+0·08	+6	2·8	—1·0	1·56	—0·99	—39	3·6	+0·7	2·07	+0·51	+33	8·7	—0·1	1·87	—0·33	—15
2·1	+0·9	1·11	+0·49	+79	1·6	—1·4	0·72	—0·93	—56	5·2	+0·8	2·81	+0·44	+19	7·6	+1·3	4·26	+1·02	+31
1·3	—0·3	0·73	—0·22	—23	1·3	—1·9	0·63	—1·48	—70	7·1	+0·3	4·42	—0·52	—11	12·5	+2·5	8·77	+2·14	+32

TABLE XII—AVERAGE OVER THE 33 SUB-DIVISIONS OF THE MONTHLY AND ANNUAL

SUB-DIVISION.	AUGUST.					SEPTEMBER.					OCTOBER.				
	RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
1. Bay Islands	21·0	+3·3	25·26	+12·18	+93	21·5	+3·7	22·94	+8·23	+56	11·5	—1·4	9·29	+0·51	+6
2. Lower Burma	24·6	+0·8	30·10	+2·96	+11	20·6	+2·1	22·81	+5·54	+32	9·3	—0·4	8·47	+0·78	+10
3. Upper Burma	12·1	+0·4	7·33	—0·99	—12	10·3	—0·4	7·46	—0·44	—6	7·1	—0·3	5·35	—0·14	—3
4. Assam	17·1	—0·8	14·66	—2·20	—13	13·2	—0·6	10·60	—2·01	—16	9·2	+2·4	8·14	+2 38	+41
5. Bengal	15·7	—0·9	11·21	—2·82	—20	11·1	—1·1	8·99	—1·89	—17	6·3	+1·0	6·37	+1·32	+26
6. Orissa	17·7	+2·1	17·73	+4·66	+36	13·9	+2·1	11·68	+2·74	+31	4·8	—0·7	4·17	—0·57	—12
7. Chota Nagpur	17·2	+0·7	14·12	+0·29	+2	11·8	+1·7	9·39	+1·34	+17	2·9	—0·9	2·05	—0·86	—30
8. Bihar	12·9	—0·6	9·26	—3·21	—26	9·5	+0·6	9·12	+0·37	+4	2·6	—0·1	1·98	—0·41	—17
9. United Provinces, East	12·9	+0·1	10·30	—1·05	—9	9·8	+2·4	9·16	+2·27	+33	0·8	—0·9	0·36	—1·51	—81
10. Do. do. West	15·0	+3·6	14·05	+2·98	+27	5·7	—0·3	4·93	—1·02	—17	0	—0·9	0·03	—0·84	—97
11. Punjab, East and North	8·7	+1·9	7·46	+0·99	+15	1·3	—2·0	0·62	—2·72	—81	0	—0·6	0	—0·38	—100
12. Do. Southwest	4·8	+1·7	3·42	+0·89	+35	0·2	—1·2	0·12	—1·00	—89	0	—0·2	0	—0·11	—100
13. Kashmir	3·2	—0·2	7·24	—0·46	—6	1·3	—2·7	0·56	—2·97	—84	0·5	—1·2	0·13	—0·94	—88
14. North-West Frontier Province	5·1	+1·1	2·96	—0·25	—8	1·2	—0·8	0·49	—0·72	—60	0	—0·7	0	—0·34	—100
15. Baluchistan	1·9	+0·3	0·86	—0·09	—9	0	—0·4	0	—0·25	—100	0	—0·3	0	—0·15	—100
16. Sind	2·2	—0·2	1·38	—0·64	—32	0	—0·8	0	—0·64	—100	0	—0·1	0	—0·06	—100
17. Rajputana, West	9·4	+4·4	8·26	+4·22	+104	1·0	—1·4	0·87	—1·15	—57	0	—0·4	0	—0·31	—100
18. Do. East	16·5	+6·7	16·79	+8·49	+102	5·8	+0·9	3·98	+0·01	0	0	—0·7	0	—0·53	—100
19. Gujarat	15·2	+4·5	13·01	+4·93	+61	4·3	—1·3	2·60	—1·98	—43	0·1	—1·0	0·05	—0·85	—94
20. Central India, West	17·5	+5·6	17·33	+6·23	+56	12·0	+5·7	12·62	+7·38	+141	0·1	—1·0	0·08	—0 78	—96
21. Do. do. East	15·9	+1·8	18·62	+5·47	+42	12·3	+4·6	10·74	+4·11	+62	0·5	—1·1	0·17	—1·25	—88
22. Berar	16·3	+6·0	12·61	+5·66	+81	10·0	+2·2	7·61	+1·76	+30	0 3	—2·0	0·13	—1·46	—92
23. Central Provinces, West	18·3	+3·8	16·90	+4·07	+32	17·2	+7·9	16·40	+8·81	+116	1·4	—1·0	0·90	—0·93	—51
24. Do. do. East	17·9	+2·0	16·25	+1·30	+9	15·8	+6·0	13·06	+5·49	+73	1·9	—1·0	1·52	—0·74	—33
25. Konkan	27·8	+3·5	30·81	+7·02	+30	19·9	+4·8	10·74	—3·68	—26	3·6	—2·0	2·15	—2·16	—50
26. Bombay Deccan	11·5	+2·1	7·13	+1·70	+31	6·4	—1·8	4·38	—1·24	—22	2·6	—1·9	1·93	—1·05	—35
27. Hyderabad, North	12·2	+1·5	10·45	+3·36	+47	7·7	—2·4	5·96	—2·37	—28	1·4	—1·7	0·56	—1·62	—74
28. Do. South	9·8	—0·3	4·64	—1·53	—25	7·8	—1·8	5·19	—1·71	—25	1·8	—2·4	0·56	—2·46	—81
29. Mysore	8·5	0·2	4·91	—0·32	—6	3·0	—5·1	0·96	—4·23	—82	9·0	+1·2	7·30	+2·00	+38
30. Malabar	14·2	—1.7	11·64	—0·84	—7	5·3	—6·1	1·92	—5·90	—75	14·3	+0·9	12·47	+1·33	+12
31. Madras, Southeast	2·8	—2·6	1·87	—1·74	—48	2·2	—3·9	1·47	—3·01	—67	13·6	+4·8	11·98	+4·87	+68
32. Do. Deccan	4·2	—2·4	1·52	—2·38	—61	2·8	—5·2	1·46	—4·31	—75	5·0	—0·7	3·02	—1·14	—27
33. Do. Coast, North	11·3	+1·1	8·11	+1·00	+14	7·7	—1·7	5·41	—1·57	—22	6·8	—0·2	5·76	—0·94	—14

RAINFALL AND NUMBER OF RAINY DAYS WITH THEIR DEPARTURES FROM NORMAL IN 1934.

NOVEMBER.					DECEMBER.					YEAR.				
RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
11·0	+1·5	5·86	−1·72	−23	1·5	−3·5	0·91	−3·73	−80	118·0	−0·4	109·18	+12·79	+13
2·6	−0·8	2·09	−0·55	−21	0·3	−0·4	0·10	−0·41	−80	116·6	−2·2	120·36	−4·06	−3
3·2	+0·3	3·26	+1·42	+77	0·3	−0·5	0·10	−0·36	−78	66·5	−0·7	45·74	−1·24	−3
4·4	+2·9	2·78	+1·84	+196	1·0	+0·1	0·33	−0·05	−13	125·0	+9·9	117·20	+16·72	+17
1·7	+0·8	1·05	+0·27	+35	1·1	+0·3	0·64	+0·48	+300	81·7	−2·6	67·82	−6·48	−9
0·8	−0·6	0·25	−1·19	−83	0·3	−0·1	0·15	−0·06	−29	68·2	−5·0	57·42	−1·11	−2
1·0	+0·3	0·65	+0·26	+67	0·2	−0·1	0·09	−0·05	−36	65·1	−2·7	48·20	−4·44	−8
0·6	+0·2	0·29	+0·01	+4	0·3	+0·1	0·14	+0·05	+56	53·3	−2·5	45·97	−2·55	−5
0·2	−0·2	0·05	−0·14	−74	0·7	+0·3	0·15	−0·07	−32	48·4	+2·3	40·55	+1·28	+3
0	−0·3	0·01	−0·14	−93	1·9	+1·2	0·50	+0·15	+43	46·9	+4·3	38·78	+1·69	+5
0	−0·3	0	−0·13	−100	1·2	+0·3	0·44	0	0	28·4	−1·8	19·44	−3·38	−17
0	−0·2	0	−0·08	−100	0·8	+0·3	0·31	+0·09	+41	15·3	−1·2	8·95	−1·10	−11
0·4	−0·5	0·10	−0·38	−79	5·1	+2·0	2·47	+0·51	+26	43·3	−8·0	31·44	−10·29	−25
0·1	−0·4	0·03	−0·27	−90	2·5	+1·4	0·76	+0·21	+38	26·3	−0·8	13·82	−1·92	−12
0	−0·6	0·01	−0·25	−96	4·5	+3·0	2·09	+1·44	+222	14·9	−2·5	7·00	−1·10	−14
0	−0·1	0	−0·06	−100	0·3	0	0·08	0	0	9·3	−0·1	6·80	−0·34	−5
0	−0·1	0	−0·08	−100	0·5	+0·3	0·13	+0·02	+18	19·6	+2·2	14·73	+2·25	+18
0·1	−0·2	0·09	−0·07	−44	1·4	+0·9	0·46	+0·25	+119	40·9	+7·1	32·38	+6·39	+25
0·7	+0·4	0·83	+0·44	+232	0	−0·1	0	−0·04	−100	40·0	+3·0	33·34	+1·24	+4
0·7	0	0·35	+0·40	+89	1·0	+0·6	0·31	+0·14	+82	51·3	10·0	46·20	+11·56	+33
0·6	0	0·40	+0·07	+21	1·1	+0·5	0·31	+0·05	+19	56·6	+7·2	48·28	+6·17	+15
3·9	+2·9	2·61	+2·04	+358	0	−0·7	0	−0·39	−100	53·7	+7·4	39·12	+6·89	+21
2·3	+1·5	1·06	+0·49	+86	0·8	+0·2	0·36	+0·03	+9	69·3	+12·5	57·94	+11·35	+24
1·9	+1·2	0·68	+0·27	+66	0·1	−0·5	0·05	−0·24	−83	67·7	+4·2	57·10	+3·27	+6
2·4	+0·9	1·94	+0·91	+88	0	−0·3	0	−0·14	−100	101·4	+7·3	117·14	+7·06	+6
2·6	+1·0	2·37	+1·88	+190	0	−0·4	0	−0·28	−100	45·3	−2·4	29·91	−0·75	−2
2·9	+1·6	2·05	+1·25	+156	0	−0·5	0	−0·32	−100	48·8	−0·9	35·40	+1·04	+3
3·0	+1·1	1·70	+0·71	+72	0	−0·4	0	−0·21	−100	44·9	−4·4	25·48	−5·37	−17
2·6	−1·2	1·47	−0·96	−40	0·1	−0·7	0·02	−0·43	−96	46·3	−9·1	29·31	−6·85	−19
5·0	−4·2	3·50	−3·65	−51	0·5	−2·1	0·16	−1·62	−91	97·4	−14·8	83·84	−16·30	−16
5·0	−3·4	3·98	−3·51	−47	2·0	−2·2	0·73	−2·65	−78	43·4	−4·8	31·47	−4·16	−12
2·7	−0·7	2·10	−0·09	−4	0·2	−0·5	0·06	−0·35	−85	31·6	−8·7	17·14	−7·73	−31
3·2	−0·5	2·68	−1·01	−27	0·5	−0·4	0·19	−0·65	−77	52·1	−2·7	36·95	−4·28	−10

TABLE XIII.—AVERAGE OVER THE 15 CHIEF POLITICAL DIVISIONS OF THE ACTUAL RAINFALL WITH ITS DEPARTURE FROM NORMAL FOR THE FOUR SEASONS OF THE YEAR, AND FOR THE WHOLE YEAR, 1934.

Division.	January and February.			March to May.			June to September.			October to December.			Whole year.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	"	"		"	"		"	"		"	"		"	"	
Burma	0·51	+0·18	+55	6·87	−3·66	−35	62·95	+0·54	+1	9·60	+0·41	+4	79·93	−2·53	−3
Assam	3·84	+1·61	+72	30·26	+5·16	+21	71·85	+5·78	+9	11·25	+4·17	+59	117·20	+16·72	+17
Bengal	1·80	+0·51	+40	8·51	−4·14	−33	49·46	−4·92	−9	8·06	+2·67	+35	67·83	−6·48	−9
Bihar and Orissa	1·22	−0·23	−16	1·30	−2·77	−68	43·78	+1·09	+3	3·05	−0·80	−21	49·35	−2·71	−5
United Provinces	1·41	−0·03	−2	0·96	−0·44	−31	36·68	+3·21	+10	0·54	−1·26	−70	39·59	+1·48	+4
Punjab	0·73	−1·16	−61	1·85	−0·11	−6	13·89	−1·50	−10	0·41	−0·41	−50	16·88	−3·18	−16
North-West Frontier Province	0·69	−1·77	−72	3·79	−0·41	−10	8·55	+0·66	+8	0·79	−0·40	−34	13·82	−1·92	−12
Sind	0·01	−0·51	−98	0·24	−0·27	−53	6·47	+0·56	+9	0·08	−0·12	−60	6·80	−0·34	−5
Rajputana	0·16	−0·41	−72	0·65	−0·21	−24	24·95	+5·91	+31	0·40	−0·36	−47	26·16	+4·93	+23
Bombay	0·07	−0·13	−65	0·57	−0·96	−63	42·55	+2·86	+7	3·31	−0·13	−4	46·50	+1·64	+4
Central India	0·57	−0·27	−32	0·40	−0·47	−54	44·59	+11·51	+35	1·11	−0·45	−29	46·67	+10·32	+28
Central Provinces	0·14	−1·11	−89	0·32	−1·36	−81	50·19	+9·67	+24	2·39	−0·39	−14	53·04	+6·82	+15
Hyderabad	0·06	−0·43	−88	1·06	−0·94	−47	27·14	+0·67	+3	2·44	−1·30	−35	30·70	−2·00	−6
Mysore	0·28	+0·01	+4	3·65	−1·70	−32	16·61	−5·77	−26	8·79	+0·61	+7	29·31	−6·85	−19
Madras	2·57	+1·39	+118	4·19	−1·83	−30	24·10	−4·87	−17	13·53	−2·28	−14	44·39	−7·59	−15
Mean of India	0·90	−0·10	−10	3·75	−1·32	−26	38·49	+1·84	+5	4·80	−0·22	−4	47·94	+0·20	0

TABLE XIV.—AVERAGE OVER THE 33 SUB-DIVISIONS OF THE ACTUAL RAINFALL WITH ITS DEPARTURE FROM NORMAL FOR THE FOUR SEASONS OF THE YEAR AND FOR THE WHOLE YEAR, 1934.

Sub-division.	January and February.			March to May.			June to September.			October to December.			Whole year.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1	2		4	5	6	7	8	9	10	11	12	13	14	15	16
1. Bay Islands	3·56	+1·87	+111	7·39	−6·92	−48	82·17	+22·78	+38	16·06	−4·94	−24	109·18	+12·79	+13
2. Lower Burma	0·17	−0·17	−50	11·51	−2·50	−18	98·02	−1·21	−1	10·66	−0·18	−2	120·36	−4·06	−3
3. Upper Burma	0·79	+0·46	+139	2·99	−4·63	−61	33·25	+2·01	+6	8·71	+0·92	+12	45·74	−1·24	−3
4. Assam	3·84	+1·61	+72	30·26	+5·16	+21	71·35	+5·78	+9	11·25	+4·17	+59	117·20	+16·72	+17
5. Bengal	1·80	+0·51	+40	8·51	−4·14	−33	49·46	−4·92	−9	8·06	+2·07	+35	67·83	−6·48	−9
6. Orissa	0·07	−1·56	−96	1·61	−4·10	−72	51·17	+6·37	+14	4·57	−1·82	−28	57·42	−1·11	−2
7. Chota Nagpur	1·37	−0·53	−28	0·98	−2·73	−74	43·06	−0·53	−1	2·79	−0·65	−19	48·20	−4·44	−8
8. Bihar	1·74	+0·61	+54	1·29	−2·09	−62	40·53	−0·72	−2	2·41	−0·35	−13	45·97	−2·55	−5
9. United Provinces, East.	1·37	+0·19	+16	0·60	−0·59	−50	38·02	+3·40	+10	0·56	−1·72	−75	40·55	+1·28	+3
10. United Provinces, West.	1·44	−0·23	−14	1·27	−0·29	−19	35·53	+3·04	+9	0·54	−0·83	−61	38·78	+1·69	+5
11. Punjab, East and North.	0·91	−1·29	−59	1·97	−0·11	−5	16·12	−1·97	−11	0·44	−0·51	−54	19·44	−3·88	−17
12. Punjab, Southwest	0·17	−0·88	−84	1·51	−0·11	−7	6·96	−0·01	0	0·31	−0·10	−24	8·95	−1·10	−11
13. Kashmir	4·69	−2·43	−34	6·70	−3·33	−33	17·35	−3·72	−18	2·70	−0·81	−23	31·44	−10·29	−25
14. North-West Frontier Province.	0·69	−1·77	−72	3·79	−0·41	−10	8·55	+0·66	+8	0·79	−0·40	−34	13·82	−1·92	−12
15. Baluchistan	0·35	−2·02	−85	1·29	−0·90	−41	3·26	+0·78	+31	2·10	+1·04	+98	7·00	−1·10	−14
16. Sind	0·01	−0·51	−98	0·24	−0·27	−53	6·47	+0·56	+9	0·08	−0·12	−60	6·80	−0·34	−5
17. Rajputana, West	0·04	−0·38	−90	0·53	−0·24	−31	14·03	+3·24	+30	0·13	−0·37	−74	14·73	+2·25	+18
18. Do. East	0·23	−0·42	−65	0·74	−0·18	−20	30·86	+7·34	+31	0·55	−0·35	−39	32·38	+6·39	+25
19. Gujarat	0	−0·19	−100	0·03	−0·40	−93	32·63	+2·28	+8	0·68	−0·45	−40	33·34	+1·24	+4
20. Central India, West	0·40	−0·30	−43	0·30	−0·50	−63	44·31	+12·60	+40	1·19	−0·24	−17	46·20	+11·56	+33
21. Central India, East.	1·15	−0·19	−14	0·73	−0·35	−32	45·52	+7·84	+21	0·88	−1·13	−56	48·28	+6·17	+15
22. Berar	0·16	−0·35	−69	0·16	−0·96	−86	36·06	+8·01	+29	2·74	+0·19	+7	39·12	+6·89	+21
23. Central Provinces, West.	0·26	−1·09	−81	0·36	−1·10	−75	55·00	+13·95	+34	2·32	−0·41	−15	57·94	+11·35	+24
24. Central Provinces, East.	0·04	−1·55	−97	0·40	−1·74	−81	54·41	+7·27	+15	2·25	−0·71	−24	57·10	+3·27	+6
25. Konkan	0·01	−0·14	−93	0·46	−1·56	−77	112·58	+10·15	+10	4·09	−1·39	−25	117·14	+7·06	+6
26. Bombay, Deccan	0·13	−0·11	−46	0·96	−1·11	−54	24·02	−0·08	0	4·80	+0·55	+13	29·91	−0·75	−2
27. Hyderabad, North	0·10	−0·42	−81	1·35	−0·38	−22	31·34	+2·53	+9	2·61	−0·69	−21	35·40	+1·04	+3
28. Do. South	0·01	−0·45	−98	0·74	−1·57	−68	22·47	−1·39	−6	2·26	−1·96	−46	25·48	−5·37	−17
29. Mysore	0·26	+0·01	+4	3·65	−1·70	−32	16·61	−5·77	−26	8·79	+0·61	+7	29·31	−6·85	−19
30. Malabar	3·21	+1·79	+126	9·09	−3·39	−27	55·41	−10·76	−16	16·13	−3·94	−20	83·84	−16·30	−16
31. Madras, Southeast	4·12	+2·65	+182	3·38	−0·96	−22	7·28	−4·57	−39	16·69	−1·29	−7	31·47	−4·16	−12
32. Do. Deccan	0·08	−0·27	−77	1·83	−0·65	−26	10·05	−5·23	−34	5·18	−1·58	−23	17·14	−7·73	−31
33. Do. Coast, North.	0·18	−0·60	−77	1·43	−2·13	−60	26·71	+1·05	+4	8·68	−2·60	−23	36·95	−4·28	−10

TABLE XV.—AVERAGE OVER THE 33 SUB-DIVISIONS OF ACTUAL NUMBER OF RAINY DAYS WITH THEIR DEPARTURES FROM NORMAL FOR THE FOUR SEASONS OF THE YEAR AND FOR THE WHOLE YEAR, 1934.

SUB-DIVISION.	JANUARY AND FEBRUARY.		MARCH TO MAY.		JUNE TO SEPTEMBER.		OCTOBER TO DECEMBER.		WHOLE YEAR.	
	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11
1. Bay Islands	2·5	+0·5	12·0	—4·5	79·5	+7·0	24·0	—3·4	118·0	—0·4
2. Lower Burma	0·5	—0·1	12·0	—3·2	91·3	+2·7	12·8	—1·6	116·6	—2·2
3. Upper Burma	2·0	+1·1	6·3	—5·2	47·6	+3·9	10·6	—0·5	66·5	—0·7
4. Assam	7·4	+2·4	82·3	—0·1	70·7	+2·2	14·6	+5·4	125·0	+9·9
5. Bengal	3·4	+1·0	11·8	—3·9	57·4	—2·3	9·1	+2·6	81·7	—2·6
6. Orissa	0·2	—2·4	2·6	—6·6	59·5	+5·4	5·9	—1·4	68·2	—5·0
7. Chota Nagpur	2·6	—0·9	2·5	—4·6	55·9	+3·5	4·1	—0·7	65·1	—2·7
8. Bihar	3·8	+1·4	2·6	—3·0	43·4	—1·1	3·5	+0·2	53·3	—2·5
9. United Provinces, East	2·6	—0·1	1·7	—0·9	42·4	+4·1	1·7	—0·8	48·4	+2·3
10. Do. Do. West	3·6	+0·1	2·6	—1·0	38·8	+5·2	1·9	0	46·9	+4·3
11. Punjab, East and North	2·6	—1·6	4·0	—0·5	20·6	+0·9	1·2	—0·6	28·4	—1·8
12. Do. Southwest	0·5	—2·0	4·6	+0·6	9·4	+0·3	0·8	—0·1	15·3	—1·2
13. Kashmir	7·7	—2·4	13·6	—2·3	21·0	—3·6	6·0	+0·3	48·3	—8·0
14. North-West Frontier Province	1·9	—3·1	8·9	+0·4	12·9	+1·6	2·6	+0·3	26·3	—0·8
15. Baluchistan	0·7	—4·8	3·7	—1·5	6·0	+1·7	4·5	+2·1	14·9	—2·5
16. Sind	0·1	—1·2	0·9	—0·2	8·0	+1·5	0·3	—0·2	9·3	—0·1
17. Rajputana, West	0·2	—0·8	1·3	—0·5	17·6	+3·7	0·5	—0·2	19·6	+2·2
18. Do. East	0·9	—0·7	1·4	—0·9	37·1	+6·7	1·5	0	40·9	+7·1
19. Gujarat	0	—0·4	0·1	—0·8	39·1	+4·9	0·8	—0·7	40·0	+3·0
20. Central India, West	0·9	—0·6	0·9	—0·9	47·7	+11·9	1·8	—0.4	51·3	+10·0
21. Do. Do. East	2·1	—0·7	1·9	—0·6	50·4	+9·1	2·2	—0·6	56·6	+7·2
22. Berar	0·6	—0·8	0·3	—2·3	48·6	+10·3	4·2	+0·2	53·7	+7·4
23. Central Provinces, West	0·8	—1·7	1·3	—2·0	62·7	+15·5	4·5	+0·7	69·3	+12·5
24. Do. Do. East	0·1	—2·6	1·2	—3·5	62·5	+10·6	3·9	—0·3	67·7	+4·2
25. Konkan	0	—0·3	0·8	—1·9	94·6	+10·9	6·0	—1·4	101·4	+7·3
26. Bombay, Deccan	0·3	—0·2	2·1	—1·9	37·7	+1·0	5·2	—1·3	45·3	—2·4
27. Hyderabad, North	0·4	—0·6	2·7	—1·0	41·4	+1·3	4·3	—0·6	48·8	—0·9
28. Do. South	0	—0·8	2·2	—2·5	37·9	+0·6	4·8	—1·7	44·9	—4·4
29. Mysore	0·7	+0·3	6·5	—2·4	27·4	—6·3	11·7	—0·7	46·3	—9·1
30. Malabar	4·9	+2·8	14·5	—2·4	58·2	—9·3	19·8	—5·4	97·4	—14·3
31. Madras, Southeast	5·0	+3·0	5·5	—1·1	12·3	—5·9	20·6	—0·8	43·4	—4·8
32. Do. Deccan	0·2	—0·4	3·7	—0·9	19·8	—5·5	7·9	—1·9	31·6	—8·7
33. Do. Coast North	0·2	—1·0	2·8	—2·8	38·6	+2·2	10·5	—1·1	52·1	—2·7

TABLE XVI.—SHOWING RAINFALL OF 10″ AND OVER, WITH AMOUNTS IN THE PRECEDING AND FOLLOWING 24 HOURS, DURING THE YEAR 1934.

Province and District.	Station.	Date.	Amount.			Province and District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3	Succeeding day.				Preceding day.	On date in column 3	Succeeding day.
1	2	3	4	5	6	1	2	3	4	5	6
			"	"	"				"	"	"
BURMA.						ASSAM—*contd.*					
Rangoon	Rangoon Town.	20th April	1·07	14·22	0	Khasi and Jaintia Hills.	Cherrapunji Welsh Mission House.	3rd Aug.	1·48	11·02	6·53
Do.	Victoria Lake	20th April	1·39	10·58	0	Lakhimpur	Harmati	13th Sep.	1·35	10·33	1·40
Hanthawaddy	Kyauktan	20th April.	1·50	16·60	0·18	Sylhet	Chandpur Bagan.	4th Oct.	0·41	10·90	1·98
Do.	Thongwa	20th April.	1·70	11·10	0	Garo Hills	Dalu	6th Oct.	9·56	11·62	0·45
Do.	Kayan	20th April.	0·62	12·43	0	Khasi and Jaintia Hills.	Cherrapunji Police Station.	4th Oct.	0·39	21·60	14·05
Arakan Hill Tracts.	Paletwa	12th July.	8·70	13·32	4·02	Do.	Do.	5th Oct.	21·60	14·05	3·54
Bassein	Diamond Island	20th Aug.	2·38	13·75	2·82	Do.	Cherrapunji Welsh Mission House.	4th Oct.	0·75	22·78	17·53
Do.	Do.	27th Aug.	2·75	11·57	2·08	Do.	Do.	5th Oct.	22·78	17·53	2·90
Toungoo	Shwegyin	17th Sept.	1·06	11·01	5·56						
Akyab	Ruthidaung	2nd Oct.	1·75	10·20	5·80	BENGAL.					
ASSAM.						Dacca	Dacca	15th June	2·95	10·40	0·85
Sylhet	Samanbagh	26th April	1·09	10·62	2·33	Do.	Manickganj	15th June	5·47	11·32	0·40
Khasi and Jaintia Hills.	Cherrapunji Police Station.	7th May	1·75	10·77	2·77	Do.	Joydebpur	14th June	3·21	12·54	0·74
Do.	Cherrapunji Welsh Mission House.	7th May	2·16	13·20	3·41	Jalpaiguri	Buxa	25th July	6·03	10·24	0·51
Cachar (North-Cachar Hills).	Harangajao	6th May	3·14	11·00	7·36	Chittagong	Kutubdia	13th July	4·80	11·12	0·90
Kamrup	Barduar	20th June	8·52	16·42	1·02	Cooch-Behar	Mickliganj	26th July	5·80	10·29	7·61
Sylhet	Sunamganj	15th June.	1·51	15·15	0·84	Jalpaiguri	Buxa	14th Sept.	0·02	10·59	1·05
Khasi and Jaintia Hills.	Shillong	20th June	4·20	16·35	7·79	Do.	Kalchini	15th Sept.	0·05	12·22	2·02
Do.	Upper Shillong	20th June	6·04	17·23	10·08	Chittagong	Cox's Bazar	3rd Oct.	7·77	15·68	1·96
Do.	Do.	21st June.	17·23	10·08	2·40	Do.	Rangunia	2nd Oct.	0·76	12·02	1·29
Do.	Mawphlang	19th June	0·23	11·75	16·75	BIHAR AND ORISSA.					
Do.	Do.	20th June	11·75	16·75	17·25	Champaran	Ramnagar	13th June	0	11·65	1·24
Do.	Do.	21st June.	16·75	17·25	4·30	Cuttack	Binjharpur	30th June	0	10·04	1·42
Do.	Cherrapunji Police Station.	3rd June.	1·36	15·20	11·36	Saran	Marhaura	12th July	3·05	10·00	0·62
Do.	Do.	4th June.	15·20	11·36	0·19	Do.	Daranli	12th July.	4·69	10·54	0·08
Do.	Do.	15th June	5·35	17·70	6·62	Champaran	Lauriya	14th July.	0·20	10·00	1·10
Do.	Do.	19th June	4·36	21·79	24·24	Bhagalpur	Partapganj	25th July.	0·40	10·50	1·50
Do.	Do.	20th June	21·79	24·24	36·25	Purnea	Kishanganj	26th July.	5·22	10·73	0·61
Do.	Do.	21st June	24·24	36·25	6·85	Do.	Forbesganj	26th July.	0	13·50	1·60
Do.	Cherrapunji Welsh Mission House.	3rd June	1·58	17·49	12·80	Bahadurganj	Bahadurganj	25th Aulv	2·02	10·72	2·55
Do.	Do.	4th June	17·49	12·80	0·07	Cuttack	Cuttack	10th Aug.	0·66	16·41	0·13
Do.	Do.	15th June	6·75	19·10	8·12	Sambalpur	Sambalpur	22nd Aug.	2·53	10·47	0·0
Do.	Do.	19th June	4·90	23·70	25·75	Palamau	Mahuadaur	22nd Aug.	0·70	11 53	1·11
Do.	Do.	20th June	23·70	25·75	34·50	Hindol	Hindol	10th Aug.	0·02	11·75	0·46
Do.	Do.	21st June	25·75	34·50	7·30	Baud	Baud	22nd Aug.	6·35	12·40	0·35
Do.	Jowai	20th June	7·83	14·60	11·23	Champaran	Bhaisalotan	26th Sept.	0·10	12·60	0
Do.	Do.	21st June	14·60	11·23	4·74	Angul	Balandapara	22nd Sept.	2·42	11·33	0·15
Sadiya Frontier Tract.	Pasighat	21st June	9·11	12·64	0·10	UNITED PROVINCES.					
Sylhet	Sunamganj	12th July	3·45	11·10	5·15	Naimital	Naimital	13th July	0	10·90	·0
Do.	Do.	27th July	1·68	13.46	5·54	PUNJAB.					
Garo Hills	Tura	10th July	0·90	11·18	2·02	Kangra	Dharamsala (Lower).	16th July	3·26	15·25	·98
Khasi and Jaintia Hills.	Cherrapunji Police Station.	12th July	9·10	12·90	6·90	Do.	Dharamsala (Upper).	16th July.	0·57	10·41	3·32
Do.	Do.	26th July	7·70	13·41	7·17	RAJPUTANA.					
Do.	Cherrapunji Welsh Mission House.	11th July	6·93	11·50	19·23	Jaisalmer	Bap	27th Aug.	1·70	10·00	0
Do.	Do.	13th July	11·50	19·23	11·59	Sirohi	Mount Abu	18th Aug.	9·03	12·40	2·83
Do.	Do.	13th July	19·23	11·59	1·40	BOMBAY.					
Do.	Do.	25th July	5·30	13·49	14·95	Kolaba	Panvel	27th June	0·50	11·80	6·46
Do.	Do.	26th July	13·49	14·95	7·85	Do.	Manga	27th June	2·00	10·00	6·40
Sadiya Frontier Tract.	Denning	26th July	4·30	10·65	1·05	Savantvadi	Amboli	15th Aug.	6 20	10·20	6·15
						MADRAS.					
						Coorg	Bhagamandla	23rd June	2·61	10·20	6·43
						Do.	Do.	4th July	5·20	11·15	4·42
						Do.	Do.	14th Aug.	6·90	10·95	7·05

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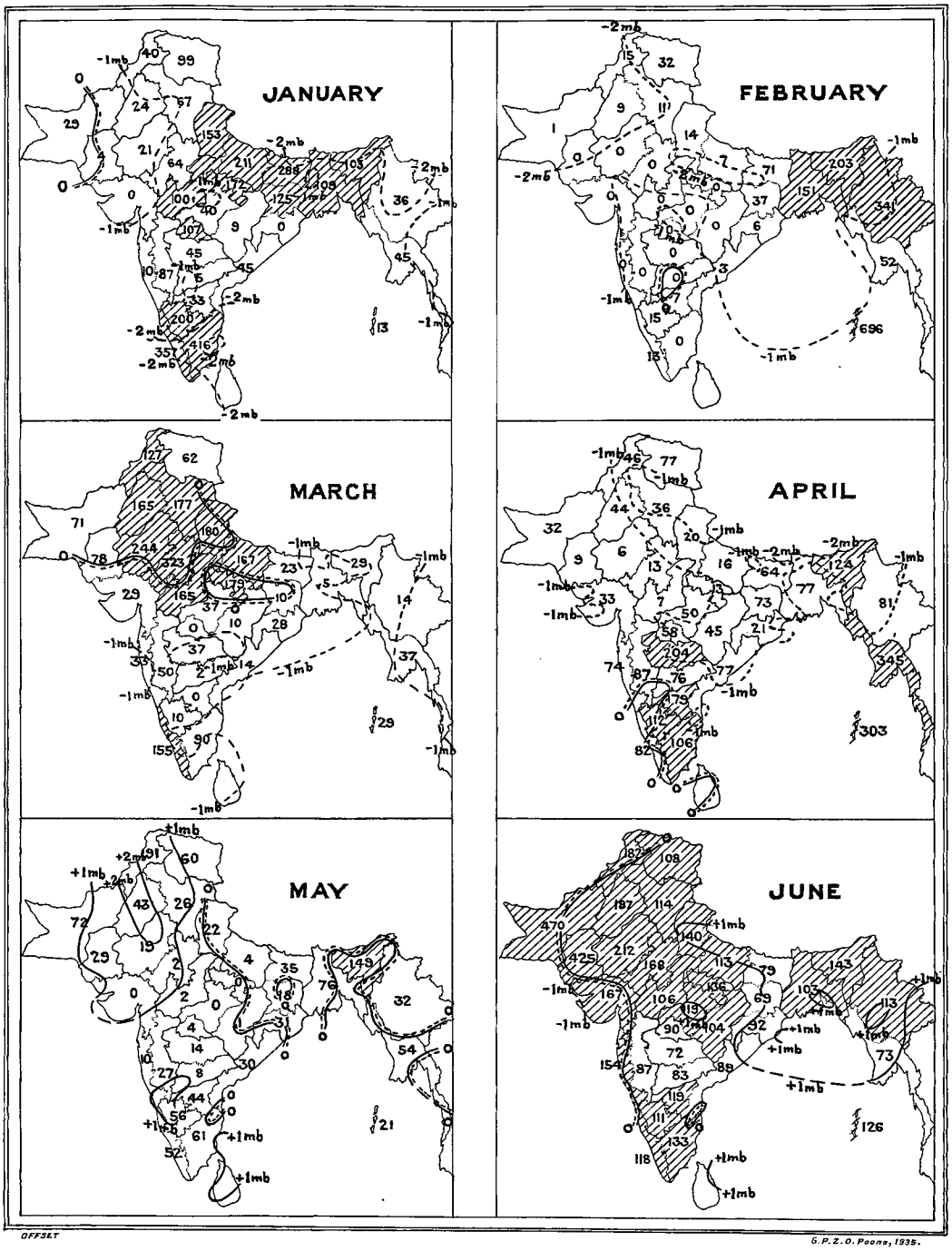
SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS)
AND MEAN MONTHLY PRESSURE ANOMALIES (IN MILLIBARS)

1934

Plate A 1.



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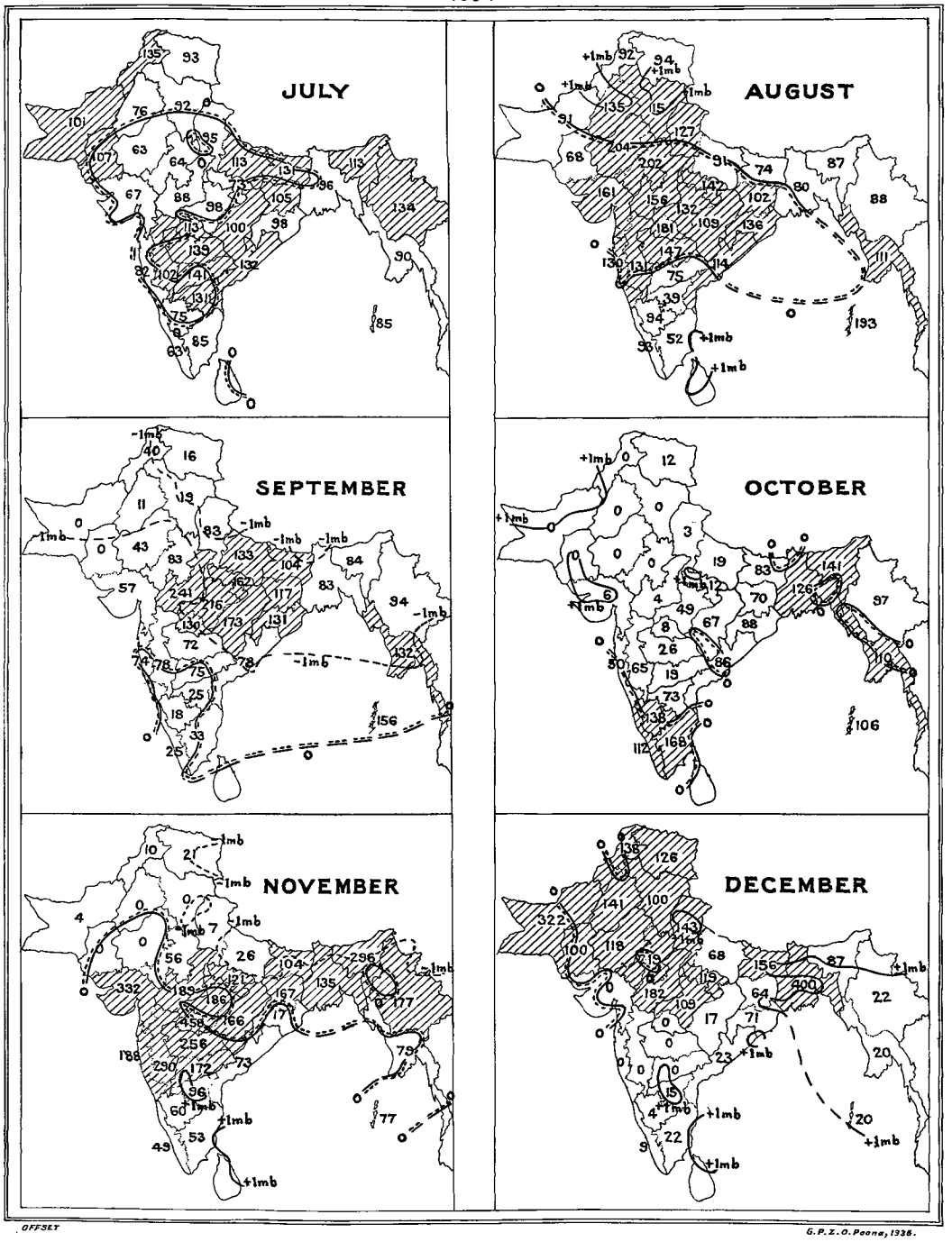
SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS)
AND MEAN MONTHLY PRESSURE ANOMALIES (IN MILLIBARS)

1934

Plate A 2.



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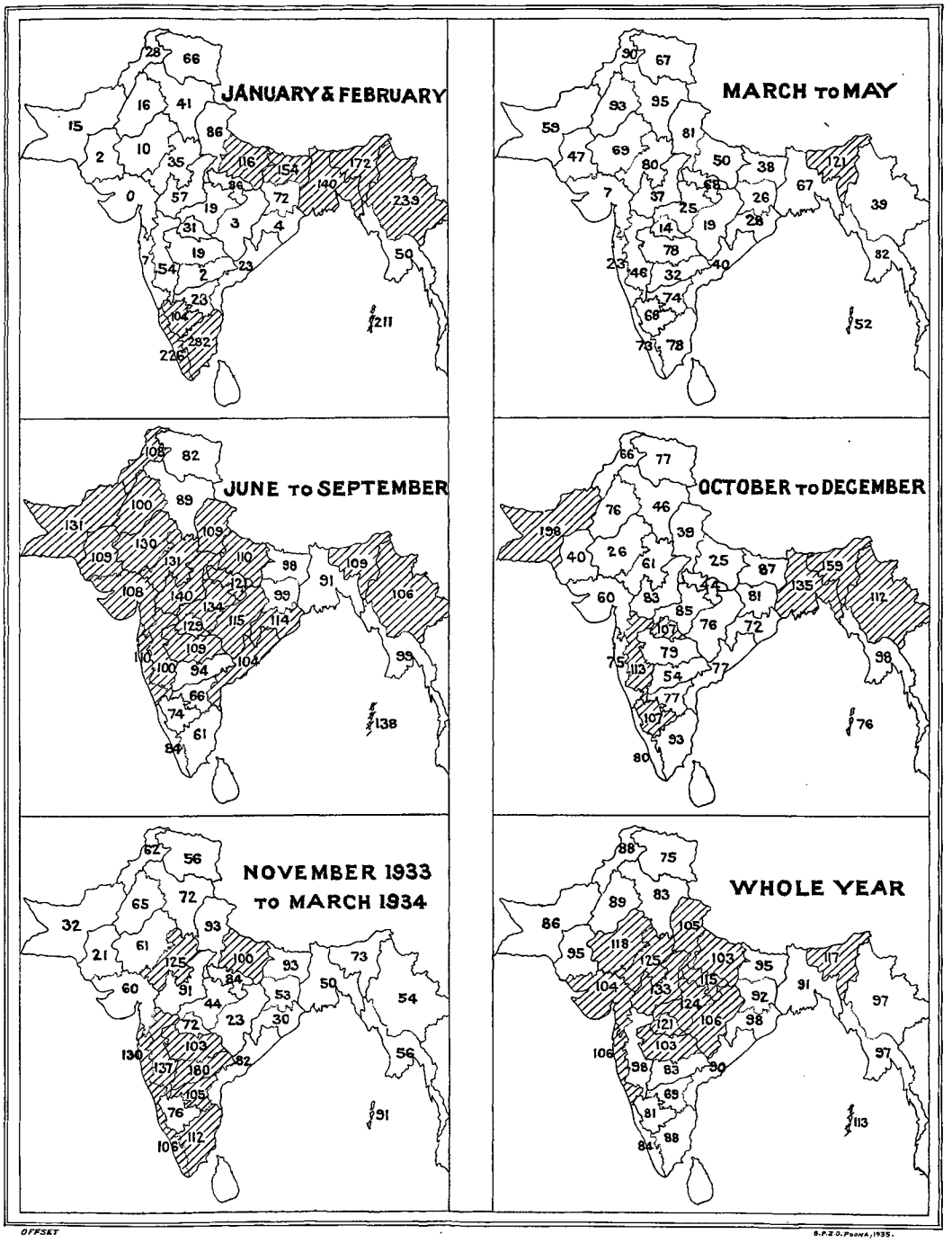
SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS)
IN DIFFERENT PERIODS OF THE YEAR 1934

Plate A.3.



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INDIA WEATHER REVIEW, 1934.

ANNUAL SUMMARY

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PART B

SNOWFALL

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UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.,

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ANNUAL SUMMARY.

PART B.

SNOWFALL.

This part contains a summary of the reports of snowfall in the mountain regions to the north and north-west of India. These reports are collected by the local officers from the local residents, headmen of villages or from travellers who have passed through the region and are then transmitted to this office.

The amount of snowfall is usually measured by finding the depth of undisturbed snow lying on the ground and such measurements are given in feet and inches. At places provided with raingauges the amount of snow collected in the gauge is melted and measured as rain and the amounts are given in inches and decimals of an inch.

Cold weather period, January and February.

I.—AFGHANISTAN.

Kabul.—February was comparatively warm and snow on the mountains near Kabul melted. The snowfall of the season has been much less than last year and the year before.

II.—BALUCHISTAN.

Quetta.—Snow fell on 4 days in January and on one day in February. The equivalent amounts of rain for these months were 0·84″ and 0·12″ respectively. Snowfall was markedly below normal during the period.

III.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Hazara.*—Snow fell on 16 days in January and on 4 days in February. The amounts were above normal in the former month and below it in the latter. Snow descended to an elevation of 4,000 ft. in January and 7,000 ft. in February. The following table gives the falls and accumulations recorded on the various hill tops at the end of each month :—

Locality.	January.		February.	
	Falls.	Accumulations.	Falls.	Accumulations.
	Ft. in.	Ft. in.	Ft. in.	Ft. in.
Narang	7 4	3 6	1 5	2 0
Pludran	5 2	3 0	0 10	1 6
Kagan	4 3	1 6	0 2	..
Jared	2 5	0 6	0 2	..
Malakandi . . .	2 7	0 6	0 0	..
Sundigali . . .	5 9	1 0	0 7	..
Jachha	5 2	..	0 6	..
Thandiani . . .	8 0	3 0	0 3½	1 0
Dungagali . . .	3 0	9 ½	0 3	0 9
Birangali . . .	8 0	1 6	0 0	..

The accumulations at the end of the season were below normal.

(*b*) *Dir, Swat and Chitral.*—At Drosh several falls were reported during the period under report. The heaviest fall which gave 13″ of snow was recorded on the 27th January.

(*c*) *Khyber Agency.*—Light falls of snow were observed on the sorrounding peaks during January and February. The snowfall was below normal.

(*d*) *Kohat.*—Fort Lockhart had about 7″ of snow in January and none in February.

(*e*) *North Waziristan.*—At Razmak 7″ of snow fell in January.

IV.—KASHMIR.

(*a*) *Skardu.*—Snow fell at the station and on the neighbouring peaks on 5 days in January and on 4 days in February. The total falls were below normal. The depths of the accumulations on the surrounding peaks and passes were about 5 ft. at the end of January and about 6 ft. at the end of February, and were about normal for the season.

(*b*) *Dras.*—Snowfalls and snowstorms were frequent during the period under report. The snowline descended as far as the populated villages. Accumulations on Zojila and Mushkoo passes were about 7 ft. in January and about 10 ft. in February and were about normal.

(*c*) *Srinagar.*—The first fall amounting to about ½″ of equivalent rain was recorded on the 2nd January on the main valley and was followed by several moderate or light falls during the month, the total precipitation being normal. Accumulations at the end of January were also normal. In February three light falls of snow were recorded, the total precipitation being below normal. Accumulations on Pir Panjal and Harmukh ranges were moderate.

(*d*) *Kargil.*—Snow fell on 12 days in January and 9 days in February, the total amounts of equivalent rain being 1·05″ and 0·59″ respectively. The falls were less than normal.

V.—Punjab.

(*a*) *Rawalpindi.*—Nine falls of snow were reported from Murree and the surrounding peaks in January. The snow-line descended to a height of about 5,500 ft.

(*b*) *Kulu* (*Kangra District*).—In the Kangra district no snow fell during the season except on the high ranges of the Himalayas. In the Kulu sub-division falls were confined to elevations above 4,000 ft. in January and above 5,000 ft. in February. The falls were normal in January and below it in February.

(*c*) *Kilba* (*Simla District*).—There were four falls of snow in January at heights over 7,000 ft. In February snow fell on three days at elevations above 7,500 ft. Peaks and passes were heavily covered with snow and were inaccessible. The approximate depths of accumulations estimated at the various localities were as follows :—

Locality.	At the end of January.	At the end of February.
	Ft.	Ft.
Rupan Pass	22	23
Buran Pass	25	29
Charang Pass	17	19
Shatul Pass	20	21

The accumulations were above normal.

VI.—United Provinces.

(*a*) *Almora.*—The following tables give the amounts of falls and accumulations at the end of each month :—

Actual falls.

Locality.	January.	February.
	Ft. in.	Ft. in.
Malla Johar	1 2	3 0
Malla Darma	0 11	8 0
Malla Danpur	4 0	5 0
Chaudans	..	3 0

Accumulations.

Locality.	January.	February.
	Ft.	Ft.
Milam	12	..
Nuwe Pass	21	21

The accumulations were about the average at the end of the period.

(*b*) *Garhwal.*—No reports were received.

VII.—Assam.

(*a*) *Kamrup.*—Falls and accumulations during the period were normal.

(*b*) *Sadiya Frontier Tract.*—Heavy snow fell in February, the snowline descending to 6,000 ft.

(*c*) *Baliapara Frontier Tract.*—The falls of snow on the high passes were less than the normal.

The Hot Weather period, March to May.

I.—Afghanistan.

Kabul.—During thunderstorms snow fell down to about the 9,000 ft. level in May, but passes over the Hindu-Kush are reported to be open and snow lay in small quantities on the lower levels.

II.—Baluchistan.

Quetta.—Slight snow fell on one day in March at Quetta and a few falls occurred in the first half of the month on the surrounding hills. Snow melted away very early in the season, there being hardly any snow left on the peaks at the end of March.

III.—North-West Frontier Province.

(*a*) *Hazara.*—There were two moderate falls of snow in March. Accumulations of snow at the end of the period on the surrounding peaks and passes were below normal.

(*b*) *Dir, Swat and Chitral.*—From one to nine feet of snow-fall was observed during May on the Lowari pass and its vicinity. Accumulations of snow on the higher regions near Drosh were about 2 to 5 feet.

(*c*) *Khyber Agency.*—Light snow fell on the surrounding peaks in March. There was less snow than usual on the Safed Koh range.

(*d*) *Kohat.*—On Fort Lockhart about an inch of snow fell in March. No falls occurred during the rest of the period.

(*e*) *Kurram.*—Parachinar had one fall during the period. Accumulations on the high peaks of Safed Koh were less than those of the previous year.

(*f*) *North Waziristan.*—A little snow fell at Razmak in March. No falls were reported during the remaining period. Snow melted away by the end of April.

(*g*) *South Waziristan.*—No snow fell at Wano. Accumulations of snow at the end of the period were less than normal.

(*h*) *Dera Ismail Khan.*—Snowfall was normal. Snow disappeared from the Takht-i-Suleman before the end of April.

IV.—Kashmir.

(*a*) *Skardu.*—On the neighbouring peaks and passes two falls occurred in each of the months March and April and

four in May. Accumulations at the end of the season were above normal. Snowline descended to a height of about 9,000 ft. in March and April and to 9,500 ft. in May.

(*b*) *Dras.*—Frequent snowstorms giving about 2″ to 3″ of snowfall occurred during March, April and May on the passes and neighbouring mountains. The snowfall was below normal in March and above it in April and May. Accumulations were about 6 ft. on the Zojila and Mushkoo passes throughout the period, and were below normal.

(*c*) *Srinagar.*—Several light to moderate falls were observed in all the three months on the neighbouring mountains, but no fresh fall occurred in the main valley. The falls were below normal in March and April and above it in May. Accumulations of snow were moderate in March and April. Snow accumulations on Harmukh and Pir Panjal mountain ranges were visible from Srinagar, and were reported to be a few feet deep.

(*d*) *Kargil.*—Snow fell on 4 days in March and on one day in May. Each time the snow reached the level of Kargil. The equivalent amount of rain was 0·30″ in March and 0·03″ in May. No information was received regarding April. Snowfall was on the whole below the average during the period. Accumulations at the end of the period on well-known passes were about 1 ft. and were below normal.

(*e*) *Sonamarg.*—Snow accumulations at the end of May on peaks and passes were less than those of the previous year.

(*f*) *Leh.*—Towards the end of May passes to the north were snowbound as usual, snow lying on the mountains down to about 14,000 ft. Accumulations at the end of the period were normal.

V.—Punjab.

(*a*) *Rawalpindi.*—Two light falls were reported from Murree and neighbouring peaks in March. Before the end of the month all the snow melted away.

(*b*) *Chamba.*—In May there were occasional falls of snow on elevations above 11,000 ft. and rain and hailstorms below that height. Accumulations of snow at the end of the period varied from 8 to 12 ft. on the well-known passes, and were above the average.

(*c*) *Kulu* (*Kangra District*).—In the Kangra district there were no falls during the season except on the high ranges of the Himalayas. In the Kulu sub-division falls were confined to elevations above 9,000 ft. The accumulations at the end of the season in Rohtang and Hampta passes were 3 ft. and 4 ft. respectively and were below normal.

(*d*) *Kilba* (*Simla District*).—Snow mixed with rain fell on 3 days in March down to elevations of 8,000 ft. In each of the other two months of the period under report snow fell only on one day and came down to 8,000 ft. in April and to 10,000 ft. in May. Falls were below normal throughout the period. Accumulations of snow could not be ascertained as all the peaks and passes were covered with snow and hence closed for traffic.

VI.—United Provinces.

(*a*) *Almorah.*—The following table gives the approximate amounts of falls at the end of each month as reported by the Patwaris :—

Actual falls.

Locality.	March.	April.	May.
	Ft. in.	Ft. in.	Ft. in.
Malla Darma . . .	9 0	4 0	..
Chaudans	6 8	1 6	2 9
Malla Danpur . . .	4 0	10 0	3 0
Malla Johar	4 0	3 0	1 9

The accumulations in the Nuwe Pass at the end of March, April and May were respectively 21 ft., 15 ft. and 14 ft. and were slightly below the average.

(*b*) *Garhwal.*—Snowfall during the period and the accumulations at the end of May were reported to be far below normal.

VII.—Assam.

(*a*) *Kamrup.*—Falls and accumulations at the end of March were normal. Reports for April and May were not received.

(*b*) *Sadiya Frontier Tract.*—No snowfall occurred in March and April. Report for May was not received.

(*c*) *Baliapara Frontier Tract.*—In March and April the falls of snow on the higher passes were less than usual. No information was received for May. The accumulations at the end of April were about 1 ft. on the Piri La and Jhum La passes.

South-West Monsoon Period, June-September.

JUNE AND JULY.

I.—Afghanistan.

Kabul.—There was no snowfall during the season. There was no snow on the Paghman and Safed Koh mountains except in sheltered places. The snow on the Hindu-Kush was less than normal.

II.—North-West Frontier Province.

(*a*) *Hazara.*—Elevations from 10,000 to 17,500 ft. had falls of snow ranging from ½″ to 6″ during the season. The accumulations ranged from 1 to 5 ft. at the end of the season.

(*b*) *Dir, Swat and Chitral.*—No snowfall was reported in this locality during the period. There were, however, abnormal accumulations of snow in the mountain ranges and passes of Chitral.

(*c*) *Khyber Agency.*—In the neighbourhood of Tirah no snowfall was reported. As usual, snow existed on the tops of Gurdama, Adina and Malaka peaks.

(*d*) *Kurram.*—No falls were reported. The accumulations on the well-known peaks of Safed Koh at the end of July were less than those of the previous year.

(*e*) *South Waziristan.*—No snow fell in this locality during the period. There was no accumulation of snow on any of the mountain ranges or passes at the end of July.

III.—Kashmir.

(*a*) *Skardu.*—Two fresh falls of snow were reported in July. These were confined to elevations above 11,000 ft. No snow existed on the peaks and passes at the end of the period.

(*b*) *Dras.*—Four falls occurred on the Zojila and Mushkoo passes in June and one fall in July. They were below normal. The depths of accumulations at the end of June and July on the Zojila and Mushkoo passes measured about 3½ ft. and 2½ ft. respectively and they were above normal.

(*c*) *Srinagar.*—Fresh light falls of snow occurred on the surrounding high mountain ranges during the first week of June, but none in July. Accumulations of snow were normal at the end of June and below normal at the end of July.

(*d*) *Gulmarg.*—Several fresh light falls of snow occurred in the surrounding mountains during the first half of June but none in July. The falls were reported to be below normal. Very thin accumulations of snow existed on some of the high peaks of the Afarwat range at the end of the period.

(*e*) *Sonamarg.*—No snow fell during the season. About one foot of snow existed on the Zojila and the Dachhinpora passes at the end of the period.

(*f*) *Gurez.*—No snow fell during the months. Accumulations on the Burzil pass were about 5 ft. at the end of July and were above normal due to unusual snowfalls during April and May.

(*g*) *Leh.*—No snowfall occurred during the season under report. All passes were open.

IV.—Punjab.

(*a*) *Chamba.*—Snow fell only on one day in the beginning of June and descended to an elevation of 12,000 ft. Accumulations of snow existed above 12,000 ft. and were below those of the previous year.

(*b*) *Kulu* (*Kangra District*).—Slight falls occurred above 17,000 ft. in July. Accumulations at the end of the period were less than usual.

(*c*) *Kilba* (*Simla District*).—No snow fell during the period. The estimated approximate accumulations on the well-known passes at the end of June and July are given in the following table :—

Locality.	Depth of accumulation at the end of	
	June.	July.
	Ft.	Ft.
Rupin Pass	8	5
Buran Pass	12	9
Shatul Pass	8	7
Charang Pass	7	5

The accumulations for each month were on the whole above normal.

V.—United Provinces.

(*a*) *Almorah.*—The following tables give the amounts of falls and accumulations at the end of each month :—

Actuals falls.

Locality.	June.	July.
	Ft. in.	Ft. in.
Malla Johar	1 3	0 3
Malla Danpur	5 0	..
Chaudans	..	3 0

Accumulations.

Locality.	June.	July.
	Ft.	Ft.
Nuwe Pass	21	..
Lipu Pass	..	3
Binkura Pass	..	4

The accumulation at the end of the season was about the average.

(*b*) *Garhwal.*—There was about 1½ ft. of snowfall on the lower valleys and about 3 ft. on the higher ones in both the months. Falls and accumulations were above normal.

VI.—Assam.

No reports were received.

AUGUST AND SEPTEMBER.

I.—Afghanistan.

No reports were received.

II.—Baluchistan.

No reports were received.

III.—North-West Frontier Province.

Drosh.—Five light falls of snow were reported in September above 14,000 ft.

Kurram.—No snowfall occurred during the period, the precipitation being in the form of hail.

IV.—Kashmir.

(*a*) *Skardu.*—Four falls were reported in August and five in September at elevations above 10,000 ft. The falls were below the average in August and above it in September. Accumulations on the surrounding peaks at the end of the season were above normal.

(*b*) *Dras.*—Snow fell on 8 days in August and on 2 days in September on the Zojila and the Mushkoo passes. The accumulations were 2 ft. in August and one foot in September and were above normal.

(*c*) *Srinagar.*—There was one day of snowfall on the peaks of the Pir Panjal in each of the months August and September. No information is available except that snow is visible on peaks and gorges on the Pir Panjal mountain ranges at the end of the season.

(*d*) *Gulmarg.*—Snow fell on one day in each of the months August and September (*viz.*, 20th August and 26th September) on the Afarwat range. The fall was below normal in August and above it in September. Accumulations at the end of the season on the high peaks of the Afarwat range were normal.

V.—Punjab.

Kilba (*Simla District*).—The falls of the period were below normal.

VI.—United Provinces.

Almorah.—The following tables give the amounts of falls and accumulations at the end of each month :—

Actual falls.

Locality.	August.	September.
	Ft.	Ft.
Malla Darma	9	..
Chaudans	6	3
Malla Danpur	8	3
Malla Johar	7	3

The falls were above normal for the season.

Accumulations.

Locality.	August.	September.
	Ft.	Ft.
Nuwe Pass	7	..
Binkura Pass	5	7½
Milam	..	½

The accumulation at the end of the season was below the average.

The retreating monsoon period, October to December.

I.—Afghanistan.

Kabul.—A fresh light fall of snow occurred on the 27th October on the Hindu-Kush range and was followed by another fall on the 30th on the Paghman hills. Snow fell six times in November and once in December. The snowfall for the season was above normal.

II.—Baluchistan.

Quetta.—Light snow fell once in November and 5 times in December, on some of the higher peaks in the district. Two to four feet of accumulations existed on the higher peaks at the end of December. The snowfall of the season was about normal.

III.—North-West Frontier Province.

(*a*) *Hazara.*—Snow fell on 15 days in December and was above the average. The following table gives the falls and accumulations of snow at the end of December :—

Locality.	Falls.	Depth of accumulation.
	Ft. in.	Ft. in.
Narang	6 10	3 8
Paludran	5 9	3 0

III.—North-West Frontier Province—*contd.*

Locality.	Falls.	Depth of accumulation.
	Ft. in.	Ft. in.
Kagan	4 0	2 2
Jared	1 0	..
Malkandi	1 9	..
Sundigali	9 10	2 4
Jachha	8 5	2 0
Thandiani	7 5	4 6
Dungagali	5 7	5 7
Birangali	1 4	1 3

The accumulations at the end of the season were above normal.

(*b*) *Dir, Swat and Chitral.*—Drosh reported 4 falls of snow in October, 3 in November and 7 in December. The falls were confined to elevations generally above 8,000 ft.

(*c*) *Khyber.*—No snow fell in the months of November and December.

(*d*) *Kurram.*—Snow fell on 4 days in November and on several days in December. The accumulations on the peaks of the Safed Koh at the end of the period were above normal.

(*e*) *Kohat.*—No snow fell in November. Fort Lockhart had 8½″ of snow in December.

(*f*) *South Waziristan.*—Towards the end of November snow fell to the north and northwest of Wana. There was again a light fall on the 13th December followed by a heavy one on the 16th on the hills above 7,000 ft.

IV.—Kashmir.

(*a*) *Skardu.*—Snowfall was observed on the surrounding hills generally above 10,000 ft. on 2 days in October, on 7 days in November and on 5 days in December. The accumulations on the higher peaks at the end of the period were about normal.

(*b*) *Dras.*—No snow fell in October. December witnessed several falls of snow. Accumulations on the Zojila and Mushkoo passes amounted to 7 ft. at the end of December and were normal.

(*c*) *Srinagar.*—Three light falls of snow were reported in October, while several light to moderate falls occurred in November and December. The falls were normal during the season. Snow accumulations on the surrounding mountains were normal at the end of the period.

(*d*) *Kargil.*—Snow fell on one day in October and on 7 days in December, the total for the latter month being 8½″.

V.—Punjab.

(*a*) *Kulu* (*Kangra District*).—No snow fell during the period under report, the precipitation being in the form of rain. Snowline descended to 5,000 ft. on the ridges of Kulu and Seraj. Part of the snow, however, melted away on account of continuous heavy rainfall. The accumulations on the well-known passes of the sub-division are given in the following table :—

Locality.	Depth of accumulation.
	Ft.
Hampta Pass	6
Rohtang Pass	6
Bhabu Pass	4
Bashleo Pass	1½
Jalori Pass	1½

The accumulations were normal at the end of the season.

(*b*) *Kilba* (*Simla District*).—No snow fell in October and November at Kilba proper. It was confined to elevations above 18,000 ft. in October and 9,000 ft. in November. There were 11 days of snowfall in December, snowfall commencing earlier than usual; the falls on the higher elevations were very heavy. Passes like Haran, Rupin and Buran were blocked at the end of December.

VI.—United Provinces.

(*a*) *Almorah.*—The total falls for each of the months are indicated in the following table :—

Locality.	October.	November.	December.
	Ft. in.	Ft. in.	Ft. in.
Malla Darma	..	0 0	6 6
Chaudans	2 3	1 2	5 6
Malla Johar	3 0	2 0	..
Malla Dangur	4 0	12 0	2 0
Biyans	..	..	5 6

Snowfall of the season was less than usual. The following table gives the estimated approximate accumulation at the end of each month during the period :—

Locality.	October.	November.	December.
	Ft. in.	Ft. in.	Ft. in.
Nuwe Pass	22 0	20 0	23 0
Binkura Pass	5 0	4 0	..
Milam	..	1 0	..
Lipu Pass	..	..	8 0

The accumulations at the end of the season were normal.

(*b*) *Garhwal.*—Snow fell on 6 days in December, the total amounting to 1½ ft.

VII.—Assam.

(*a*) *Kamrup.*—There was no snowfall during November and December, but thin layers of snow were seen here and there on the Poonakha route. Snowfall is reported to be slightly below the average.

(*b*) *Sadiya Frontier Tract.*—Snowfall was heavier than usual and reached down to a height of about 7,000—8,000 ft. The accumulations of snow made the crossing of the valleys precarious.

(*c*) *Baliapara Frontier Tract.*—Snowfall has been heavy during the season. About 2′ of accumulation existed on the Piri La and Jhum La passes at the end of the season.

Summary.

Cold weather period, January and February.—Falls were generally below normal. Accumulations were normal in Kashmir, the Punjab, the United Provinces and Assam.

Hot weather period, March to May.—Falls and accumulations were generally below normal.

The south-west monsoon period, June and July.—Snow fall was generally below the average except in the United Provinces where it was above it. Accumulations were above normal in the North-West Frontier Province and the United Provinces and about normal in Kashmir and the Punjab.

The south-west monsoon period, August and September.—Falls were above normal in the United Provinces, normal in Kashmir and below it in the Punjab. The accumulations were above normal in Kashmir and below it in the United Provinces.

The retreating monsoon period, October to December.—Snowfall was above normal in Afghanistan, the North-West Frontier Province and Assam, about normal in Baluchistan and Kashmir and below it in the United Provinces. Accumulations at the end of the period were above normal in the North-West Frontier Province and Assam and normal in the Punjab and the United Provinces.

S. R. SAVUR,
Meteorologist,
Poona.

MGIPC—M—VIII-3-42—24-10-35—290.

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INDIA WEATHER REVIEW, 1934.

ANNUAL SUMMARY

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PART C

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ANNUAL SUMMARY.

PART C.

STORMS AND DEPRESSIONS.

DEPRESSIONS AND CYCLONIC STORMS.

During the year 4 storms and 12 depressions formed in the Bay of Bengal and 1 storm and 1 depression in the Arabian Sea. The dates on which the storms occurred and the greatest barometric depths observed are summarised in the Table below :—

TABLE.

Locality.	Month.	Date.	Greatest observed barometric depth.
Bay of Bengal . . .	April .	18—20	..
Bay of Bengal . . .	September	17—23	0·40″
Arabian Sea . . .	November	1—3	0·50″
Bay of Bengal . . .	November	5—9	0·40″
Bay of Bengal . . .	November	25—27	0·50″

The detailed descriptions of these storms and depressions are as usual, followed by a list of western disturbances of the year, of the more important local storms and of the localities in which winds of force 9 or more were experienced by ships in the Indian Seas.

1. *Depression of 23rd—26th January 1934.*—After the 18th of January 1934, the northeast monsoon strengthened in the Bay of Bengal to the south of Lat. 10° N. ; and on the morning of the 20th a feeble but concentrated fall of pressure was noticed in south Bay to the east of Ceylon. The pressure departure however appeared to be of the order of —·01″ over the region extending from the Andamans to Ceylon. Pressure continued to fall and by the morning of the 21st the negative pressure departures concentrated over the region bounded by latitudes 5° and 15° N., longitudes 80° and 95° E. During the course of next 24 hours the northeast monsoon strengthened further in the Bay to the south of Lat. 12° N. On the morning of the 22nd most of the stations in Ceylon and most ships in the Bay to the east of Ceylon reported rain, showers and squalls. By the afternoon of the same day a feeble cyclonic circulation appeared over southwest Bay indicating thereby that conditions were becoming favourable for the formation of a depression in the extreme southwest Bay.

Pressure fell further over south Bay and by the morning of the 23rd, a depression formed in the Bay with its centre near Lat. 7½°, Long. 85½°. The following observations from ships indicated that a cyclonic circulation had established itself over the disturbed area.

Date.	Steamer.	Hour.	Position.		Wind.		Remarks.
			Lat. °N.	Long. °E.	Dir.	Force.	
23rd January 1934 .	Rajula . . .	06-30	8·5	88·3	ESE	4	Mod. ——Rain. 4 NE
23rd January 1934 .	Rajula . . .	07-30	8·0	88·9	ESE	4	Mod. ——Squally. 4 E
23rd January 1934 .	Akbar . . .	08-00	9·9	86·9	ESE	4	Overcast, Gloomy.
23rd January 1934 .	Jalajyoti . . .	06-30	10·1	85·8	E	5	Mod., 7 E.
23rd January 1934 .	Jaladuta . . .	06-30	8·2	84·1	NNW	3	Slight, 3 NE.
23rd January 1934 .	Jaladuta . . .	08-00	8·1	83·9	N	3	Overcast.
23rd January 1934 .	Yorkmoor . . .	08-00	8·6	84·7	ENE	4	Squally.
23rd January 1934 .	Naldera . . .	08-00	5·8	84·1	W	3	Cont. Rain.
23rd January 1934 .	Sockahœma . . .	05-30	6·2	83·5	NW	3	....

Under its influence widespread light showers had occurred in Ceylon during the past 24 hours, and rainfall extended to a few stations in southeast Madras. During the course of the day the depression intensified further moving slowly in a westerly direction, and was centred in the evening within half a degree of Lat. 7½°, Long. 84½°.

Continuing still to move in a westerly direction, the depression was centred within half a degree of Lat. 7½° and Long. 82½° on the morning of the 24th. As the depression moved nearer the Coromandel coast the weather along the coast became worse. The following weather remarks from Port Officers of the ports along the Coromandel coast are interesting :—

Station.	Remarks.
Madras	"On the 24th it was windy throughout the day and night. Rain with squalls from ENE direction at 9-15 P.M., velocity of wind 30 m.p.h. at 9-25 P.M., direction ENE."
Cuddalore	"Squally weather during the 24th."
Porto Novo	"Weather was cloudy and rainy with rough sea and cyclonic wind from the 24th—26th."
Negapatam	"Weather rainy, sea very rough on the 24th and 25th."
Pamban	23rd—"Strong winds and rough sea prevailed with drizzling rain."
	24th—"Cloudy with drizzling rain, slight sea, occasional thunder."
Tuticorin	23rd—"Cloudy, rainy, sea rough and very rough with heavy swell."
	24th—"Cloudy, sea rough and very rough with heavy swell."

During the course of the 24th, the depression weakened and a low pressure wave moved westwards. On the next morning the low pressure area was located to the south of Ceylon. The disturbance moved northwestwards into the southeast Arabian Sea thereafter and became unimportant off Malabar during the course of the 26th. Associated with this low pressure area, there was widespread and locally heavy rainfall in Ceylon and south Madras between the 24th and 26th. Some of the noteworthy heavy falls of 5″ and above are given in the table below :—

Name of the station.	January.		
	25th.	26th.	27th.
	″	″	″
Tiruppundi	6	..	..
Muttupet	5	..	..
Mannargudi	6	..	..
Pattukottai	7	..	..
Karambakkudi	6	..	..
Kodaikanal	..	5	..
Chinnar	..	9	..
Marayur	..	6	..
Kumizhi	..	6	..
Coonoor	..	..	6

2. *Storm of 18th—20th April.*—Associated with a temporary advance of the monsoon in the south of the Bay of Bengal, a trough of low pressure appeared over southeast Bay and neighbourhood on the morning of the 18th. The pressure was falling rapidly in the neighbourhood of the Andamans and conditions were becoming unsettled in Central and South Bay to the west of the Andamans. During the course of the day pressure continued to fall over the Bay to the south of Lat. 18°N. and the unsettled conditions became more marked. The afternoon upper air charts shew that a cyclonic circulation was establishing itself over the Bay upto a height of about 4 kms.

By the early morning of the 19th the unsettled conditions intensified into a depression with central region within a degree of Lat. 12°N. and Long. 90°E. Moving in a northeasterly direction the depression continued to intensify and by 8 hrs. it had become deep with its centre within half a degree of Lat. 14½°N. and Long. 91°E. Under the influence of this depression, widespread rain had occurred in Lower Burma with a heavy fall of 5″ at Diamond Island. The observations from the following ships which were quite close to the centre of the disturbance are interesting in view of the fact that high winds were not experienced near the centre of the deep depression :

Date.	*Steamer.*	Hour.	Position.		Wind.		Remarks.
			Lat. °N.	Long. °E.	Dir.	Force.	
19th April 1934	Jalapalaka	06-30	13·5	90·9	WSW	4	Ugly threatening sky.
19th April 1934	Begum	06-30	13·2	91·8	SWS	5	Rain (squally).
19th April 1934	Gurna	08-00	14·4	90·3	NNE	2	Gloomy, Showers.

In the course of the 19th pressure fell still further and the deep depression intensified into a storm, which continuing to move in a northeasterly direction was centred at 17 hrs. within half a degree of Lat. 15°N. and Long. 94°E. *S. S.* "*Talamba*" which was about 200 miles to the east of the storm centre reported the following observations :—

Name of ship.	Hour.	Position.		Wind.		Remarks.
		Lat. °N.	Long. °E.	Dir.	Force.	
Talamba	16-30	15·3	95·0	S	8	Continuous heavy rain (Squally).

After 17 hrs. of the 19th the storm showed signs of weakening and during the night it weakened rapidly and passed away northeastwards as a low pressure wave through the Gulf of Martaban and Pegu.

It caused widespread and locally heavy rain in Tenasserim and the Pegu and Irrawady Divisions on the 18th and 19th, rainfall continuing in Tenasserim on the next three days. During the 24 hours, between 8 hrs. of the 19th and 8 hrs. of the 20th as much as 14 inches of rain fell at Rangoon. Some of the heavy falls of 5″ or above are given in the following table :—

Name of the station.	April.		
	19th.	20th.	21st.
	″	″	″
1. Moulmein	..	5	..
2. Kawkareik	..	..	5
3. Thaton	..	8	..
4. Pegu	..	6	..
5. Kawa	6	..	..
6. Rangoon Town	..	14	..
7. Victoria Lake	..	11	..
8. Hmawbi	..	6	..
9. Insein	..	7	..
10. Hlegu	..	7	..
11. Hlawga Lake	..	7	..
12. Mingaladon	7	..	..
13. Kyauktau	..	17	..
14. Thongwa	..	11	..
15. Kayan	..	12	..
16. Maubin	..	6	..
17. Pyapon	..	7	..
18. Kyaiklat	..	10	..

3. *Shallow Depression of 11th—14th June in the east Arabian Sea.*—An advance of the monsoon occurred in the southeast Arabian Sea in the beginning of June, and the monsoon current appeared in Malabar on the 8th, extending northwards along the west coast of the Peninsula on the succeeding days.

After the 8th conditions became favourable for a depression to form in front of the advancing southwest monsoon current. Upper winds at Mangalore and Bombay which were west to northwesterly before the 8th changed after that date into southerly at Mangalore and north to northeasterly at Bombay. Pressures fell in general over the whole country between the 8th and 10th June, the greatest pressure deficiency being off the Konkan on the morning of the latter day.

The following observations indicate that conditions were markedly unsettled on that morning off the Kanara-Konkan coast :—

Steamer or Station.	Hour I. S. T.	Position.		Wind.	Sea.	Weather Remarks.
		Lat. N.	Long. E.			
		° ′	° ′			
S. S. "Maur"	8	15 46	73 24	SW_6	Rough	Generally cloudy.
S. S. "Shunko Maru" . . .	8	14 43	73 26	SSE_3	Sl.	Overcast, Squally.
S. S. "Bangalore"	8	14 51	73 46	Var. 2	Smooth	Overcast.
S. S. "Maimyo"	7-30	7 40	73 20	W_2	Mod.	Rain in past hour.
Minicoy	8	..	..	SW_5	Rough	Clouded with Cumulonimbus 7.
S. S. "Captorane"	8-30	7 30	72 10	SW_4	..	Rain in past hour. Overcast with cumulonimbus.
S. S. "Britannia"	7-30	18 0	68 0	NW_3	Smooth	Traces of SK.
Amini Devi	8	..	..	NW_2	Rough	Clouded with Alto Stratus 10.

On the 10th afternoon, the upper winds at Mangalore had strengthened to force 5 to 6 and were south to southwest in direction. Those at Hyderabad, Malegaon and Bombay also answered a cyclonic circulation round about Lat. 15°N., Long. 72°E.

By the 11th morning pressures had fallen further in Kanara and a shallow depression had formed off Kanara-Konkan. During the day, the depression was slowly moving in a northerly direction. Pressures were rising south of Marmagao and falling north of it. In the evening, Marmagao recorded a southeasterly wind of force 5 and *S. S. Clamberhill* at 13°N. and 74½°E. a southwesterly wind of force 4—6 with rough sea. Rough to very rough seas were reported from all along the coast as far north as Honavar. By the next morning, the depression had moved further northwards and lay off the Konkan coast, the pressure deficiency being greatest at Bombay and pressure falls extending to Gujarat.

The depression remained shallow and continued to move northwards until the morning of the 14th by when the cyclonic circulation had broken up and a trough of low pressure lay off the Kathiawar Coast.

This depression assisted an inflow of moist air into the Deccan where numerous thunderstorms occurred after the 8th, leading to the extension of the monsoon there a couple of days later. It also caused an extension of the monsoon into the Konkan and Gujarat by the 10th and 11th respectively, and was associated with a vigorous monsoon to its south, rainfall being heavy in Kanara and Malabar, notable falls of rain being 5″ at Cochin on the 10th and 11th, and 6″ at Mangalore, Karwar and Ratnagiri on the 11th, 12th and 13th respectively.

4. *Unsettled conditions over Cutch and northeast Arabian Sea between the 26th and 29th June.*—On the 25th June, the monsoon extended into Sind and was particularly strong in Gujarat. During that day, a fall of pressure occurred over northeast Baluchistan, Sind and Gujarat, the maximum fall being over lower Sind, Cutch and Kathiawar. Thus, on the 26th morning, the seasonal low over northwest India was well marked and negative pressure departures of the order of 0·15″ were concentrated over Cutch and Kathiawar. Upper winds over Karachi had changed from weak southerlies on the previous day to strong northerlies (force 6—8) and those at Ahmedabad, while remaining southwest in direction, had strengthened to force 8 at 1 km.

On the next morning a low pressure area lay over Cutch and the adjoining parts of the northeast Arabian Sea. Pressure had fallen further since the previous day along Sind and Mekran coasts, negative pressure departures over Cutch and Kathiawar coasts being of the order of 0·19″. Veraval recorded a southwesterly surface wind of force 7 with high sea in the morning while upper winds at Karachi were blowing from the northeast with gale force (8—10) between 1 and 3 km. throughout the day.

By the next morning the low pressure area had moved westwards and lay over the north Arabian Sea. Pressures had risen generally over northwest India but particularly over Cutch and Kathiawar, and the area of maximum pressure deficiency had moved westwards since the previous day. The upper winds at Karachi had now veered to southeast. The surface wind at Veraval had weakened but rough seas and rain squalls were recorded by coastal stations and ships off the Kathiawar coast.

Moving northwestwards during the 28th, the low pressure area merged into and accentuated the seasonal low over Baluchistan by the 29th morning. Pressures had fallen in Baluchistan but risen over Sind, Cutch and Kathiawar.

The movement of these unsettled conditions induced strong monsoon in northeast Baluchistan, Sind, Gujarat, the central parts of the country, the west United Provinces and the Punjab hills.

5. *Shallow depression 26th—29th June 1934.*—The southwest monsoon current began to strengthen over the Bay after the 23rd June. On the morning of the 24th a flat pressure distribution appeared off the Circars-Orissa coast and persisted there till the morning of the 25th, when observations from some of the ships and coastal stations indicated that a feeble cyclonic circulation was gradually establishing itself over the region bounded by latitudes 15°N. and 20°N. and longitudes 85°E. and 90°E.

The afternoon upper air charts on the 25th shew that cyclonic circulation existed over central Bay off the Circars coast at least up to a height of 1·5 kms.

By the early morning of the 26th pressure began to fall rapidly over Bay, off the Orissa-Circars coast, where weather appeared unsettled. Gopalpur reported negative barometric tendency of 0·04″, Puri 0·09″ and *S. S. Aungban* (Lat. 19·8°N., Long. 89·5°E.) 0·04″. During the course of the day these unsettled conditions gradually intensified and by the afternoon a shallow depression formed in north Bay with centre near Lat. 18°N., Long. 88°E. The monsoon was strong to the south and east of the centre at this stage. The afternoon upper air charts indicated that the cyclonic circulation had extended upto a height of about 4 kms.

The depression began to move in a northwesterly direction and on the morning of the 27th it lay with central region midway between the Sandheads and Chandbali. It then began to weaken and crossed the Orissa coast as a diffuse low by the afternoon of the 27th. It continued to move northwestwards and filled up over Chota Nagpur on the 29th.

The depression was responsible for strengthening monsoon in Bihar and Orissa. Some of the locally heavy falls of 5″ and above are noted below :—

Station.	June.	
	27th.	28th.
	″	″
Port Blair	5	..
Tavoy	..	6
Amherst	..	5
Jalpaiguri	..	5

6. *Depression of 30th June—4th July 1934.*—With the passing inland of the previous depression on the 27th June, the monsoon became generally active over the country. Pressure continued to fall over Burma, northeast India, the United Provinces and the north and central Bay. On the morning of the 30th a concentrated area of negative pressure change and departure appeared at the head of the Bay, while in the upper air a cyclonic circulation existed upto a height of at least 3 kms. The following observations from ships and some of the coastal stations indicated the existence of an anticlockwise circulation at the head of the Bay even at the surface.

Date.	Steamer or station.	Hour.	Position.		Wind.		Remarks.
			Lat. °N.	Long. °E.	Dir.	Force.	
30th June	Barisal	8	..	..	SE	1	
	Khulna	8	..	..	E	2	
	Satkhira	8	..	..	NE	2	
	Sandheads	8	..	..	NW	3	
	Saugor Island	8	..	..	NW	2	
	Calcutta	8	..	..	NE	1	
	"Jaladuta"	05·30	20·1	87·5	SW	4	Cont. heavy rain.
	"Karagola"	06·30	19·9	89·5	SW	4	
	"Gazana"	06·30	20·6	90·3	SW	2	Rain, shower.
	"Nurmahal"	06·30	19·6	90·2	SW	6	Rain.

These facts suggested that a shallow depression had formed in north Bay about 75 miles east of the Sandheads. During the course of the day it moved slowly westwards and intensified. *S. S. Gazana* (Lat. 20·6°N., Long. 89·5°E.) and *S. S. Ekma* (Lat. 19·9°N., Long. 89·6°E.) which were close to the centre of the disturbance reported barometric tendency of the order of 0·09″ each.

The depression continued to move in a westerly direction and was centred near the Sandheads on the morning of the 1st. At this stage monsoon was strong to the south of Lat. 20°N. and vigorous in the east central Bay and the north Andaman Sea. The depression then took a more northerly course and on the afternoon of the 1st it was centred midway between the Sandheads and Balasore. The monsoon remained vigorous in the east central Bay and the north Andaman Sea. The chief characteristic of this disturbance was the prevalence of winds of strong to hurricane force in the upper air upto a height of 2 kms. at stations round the Bay from the 30th June to 3rd July. Port Blair recorded winds of force 10, 12 and 12 at 0·5, 1·0 and 1·5 kms. respectively on the afternoon of the 1st.

Continuing to move very slowly in a northwesterly direction the depression crossed the Orissa coast near Balasore on the afternoon of the 2nd. Next morning it lay over the east Central Provinces and eventually filled up over the central parts of the country on the 4th.

The depression was responsible for causing widespread and locally heavy rain from Gujarat to Orissa and the north Madras coast and in the Deccan. It was also responsible for the strengthening of monsoon in Lower Burma, the United Provinces and the Central Provinces.

Some of the noteworthy falls of 5″ and above are given in the Table below :—

Station.	June.		July.		
	29th.	30th.	1st.	2nd.	4th.
	″	″	″	″	″
Kendrapara	..	8	..	..	..
Binjharpur	..	10	..	..	..
Rajkanika	..	9	..	..	..
Barchana	..	7	..	..	..
Jagatsingpur	..	..	6	..	..
Jaipur	..	..	9	..	..
Dharamsala	..	..	6	..	..
Aul	..	..	10	..	..
Patamundai	..	..	9	..	..
Sonua	..	6	..	..	..
Paliganj	..	..	7	..	..
Aurangabad	..	..	5	..	..
Siwan	..	..	5	..	..
Bagaha	..	..	6	..	..
Akhayapada	..	..	7	..	..
Chandbali (Obsy.)	..	7	..	..	..

Station.	June.		July.		
	29th.	30th.	1st.	2nd.	4th.
	"	"	"	"	"
Bissipara (Phulbari)	..	..	..	6	..
Balandapara	..	..	..	6	..
Phiringia	..	..	..	5	..
Pipli	..	..	5	..	..
Kurdeg	..	..	..	10	..
Kolosib	..	5	..	..	..
Kalchini	5	..	..	..	..
Netrokona	..	..	..	..	6
Tavoy	..	9	..	..	..

Station.	June.		July.		
	29th.	30th.	1st.	2nd.	4th.
	"	"	"	"	"
Kyaukpye	..	5	..	..	..
Sandoway	..	..	..	7	..
Gwa	6	..	..	..	..
Kanker	..	..	..	5	..

7. *Shallow Depression of 7th—11th July, 1934:*—On the morning of the 4th July a concentrated area of negative pressure departure was noticed in the north Bay off the Bengal-Orissa coast while the monsoon was fairly strong to the south of Latitude 20°N. Next morning a feeble cyclonic circulation appeared in the north Bay off the Circars-Orissa coast as seen from the observations of the following ships and coastal stations :—

Date.	Steamer or station.	Hour.	Position.		Wind.		Remarks.
			Lat. °N.	Long. °E.	Dir.	Force.	
5th July	Chandbali	8	..	..	N	1	
5th July	Puri	8	..	..	NNE	1	Smooth sea.
5th July	Sandheads	8	..	..	SE	2	Slight sea.
5th July	S. S. "Hatipara"	06-30	16·8	86·5	WSW	5	Heavy rain, rough sea.
5th July	S. S. "Sirsa"	06-30	18·6	88·6	WNW	3	Slight sea.
5th July	S. S. "Binfield"	06-30	19·8	89·2	NW	2	Squally, slight sea.

The morning upper wind of Calcutta, Sambalpur and Vizagapatam on the 5th indicated that cyclonic circulation had extended over the north and central Bay off the Circars-Orissa coast up to a height of at least 3 kms. These facts suggested that weather was becoming unsettled in the north and central Bay. The monsoon-trough extended into the north Bay and during the course of the next 48 hours the unsettled conditions off the Orissa-Circars coast became more marked and by the morning of the 7th intensified into a shallow depression in the northwest angle of the Bay about 80 miles southeast of Balasore.

The depression moving slowly in a northnorthwesterly direction crossed the Orissa coast near Balasore by the early morning of the 8th and at 8 hrs. it was located over southwest Bengal and Chota Nagpur. It continued to move during the next forty-eight hours and filled up over Bihar and north Bengal on the 10th. During this period the monsoon remained strong practically over the whole of the Bay.

Some of the noteworthy heavy falls of 5" and above are given in the Table below :—

Station.	5th.	8th.	9th.	10th.
	"	"	"	"
Gwa	6	..	..	..
Cherrapunji	..	..	..	10
Chittagong	..	..	6	..
Sabour	..	..	6	..
Myitkyina	5	..	..	..
Cox's Bazar	..	6	..	..

8. *Low Pressure Wave of 17th-21st July, 1934.*—On the morning of the 17th a concentrated area of negative pressure departure appeared over Burma, suggesting thereby that a low pressure wave from the east was travelling westwards across Burma. Under the influence of this low pressure the monsoon strengthened to the south of latitude 17° N.

Continuing to move westwards, the low pressure wave passed out into the north Bay, and on the morning of the 19th it lay as a diffuse low to the east of the Sandheads causing markedly unsettled weather at the head of the Bay. Without any signs of intensification the diffuse low continued to move westwards across the north Bay of Bengal and passed inland to Orissa and Chota Nagpur on the morning of the 21st thereby accentuating the seasonal trough of low pressure which extended from the northwest frontier to Chota Nagpur and Orissa.

It was responsible for the strengthening of the monsoon to a certain extent over the country excepting northwest India. Some of the noteworthy falls of 5″ and above are given in the Table below :—

Station.	17th.	18th.	19th.
	″	″	″
Kyaukpyu	6	..	..
Diamond Island	..	5	..
Silchar	..	..	6

9. *Shallow depression of 31st July to 6th August, 1934.*—Pressure fell in the Central Bay of Bengal between the 27th and 29th July and on the morning of the 30th a trough of low pressure lay over the region extending from the east Central Provinces to off the Circars coast. The monsoon was also strong in the Bay to the south of latitude 15° N. on the 30th morning. Upper winds at Calcutta, Sambalpur and Vizagapatam which were from southwest to northwest between 2 and 4 kms. on the 29th morning changed in the course of the next 24 hours and on the 30th morning were from east to northeast, thus showing that conditions were becoming favourable for the formation of a depression in the Bay off the Circars coast. Pressure fell further on the 30th over the region of the unsettled conditions in the Bay and a shallow depression had formed off the Circars coast by the 31st morning with central region about 150 miles to the southeast of Calingapatam.

During the course of the next 24 hours the depression remained practically stationary without any marked intensification. Thereafter it moved towards the coast between Calingapatam and Gopalpur, passed inland and lay over the east Central Provinces on the 2nd morning. The depression moved very slowly after the 2nd, first northwards and then northwestwards, and filled up over the United Provinces on the 6th.

Under the influence of this depression the monsoon was active over the country except in the south of the Peninsula, Bihar, Chota Nagpur and the northwest of India upto the 7th.

10. *Depression of 9th to 12th August, 1934.*—A low pressure wave from the east passed into the Bay across Burma between the 5th and the 8th. In association with this the monsoon strengthened in the east central Bay and wide-spread moderate to heavy rain occurred in Pegu and Arakan on the 7th and 8th. Upper winds over Akyab, Chittagong and Dacca which were mainly from south to southwest (force 2 to 4) upto 2 kms. (limit of p. b. ascent) on the 8th morning backed to southeast to east in the course of the next 24 hours and strengthened at the same time (force 4 to 6), while those at Calcutta veered to north to eastnortheast from southwest to west. These changes indicated that conditions were markedly unsettled in the north Bay and a depression formed by 17 hours on the 9th with central region about 30 miles to the south of the Sandheads. The depression moved northwestwards, crossed coast near Balasore at about 9 hours on the 10th and lay over the Central Provinces on the next morning with centre slightly to the south of Umaria. Moving further westnorthwestwards, the depression lay near Saugor on the 12th morning where it filled up in the course of that day.

This depression was responsible for fairly well-distributed rainfall over the country excepting the northwest of India between the 8th and 13th, rainfall being locally heavy in Orissa on the 9th and 10th and in the east Central Provinces on the former date.

11. *Depression of 14th to 19th August, 1934.*—In association with the westward movement of a low pressure wave through Burma after the 11th, the monsoon strengthened in the south and the central Bay—Port Blair and Diamond Island had each recorded 7″ of rain on the 12th—and conditions became markedly unsettled off the Orissa-Ganjam coast on the 14th morning. The unsettled conditions intensified by that afternoon into a shallow depression which was centred at 17 hours near Lat. 18° N., Long. 88° E. The depression moved slowly northwestwards till the evening of the 15th when its central region lay in the neighbourhood of Lat. 19° N., Long. 87° E. Thereafter it remained practically stationary for about next 15 hours but intensified somewhat at the same time, the pressure deficiency near its centre on the 16th morning being at least 0·25″. The depression then moved northnorthwestwards, crossed coast between Chandbali and Puri at about midnight of the 16th and lay over Orissa on the next morning. It moved to the Kumaon hills through Chota Nagpur, east Central India and the United Provinces in the course of the next 3 days and broke up there on the 20th.

Under the influence of this depression the monsoon was active generally over the country excepting the northwest of India.

12. *Depression of 21st to 26th August, 1934.*—The monsoon was strong in the central Bay on the 19th morning and in the next 24 hours pressure fell appreciably in the Bay off the Arakan coast and very heavy rain occurred locally in Pegu and south Arakan; Diamond Island had 14″ and Gwa 8″. Pressure fell further in the north Bay during the 20th and upper winds over Calcutta which were from southwest to northwest (force 2 to 3) upto 3 kms. on the 19th afternoon changed to northeast to east (force 2 to 4) at least from 0·5 km. to 1·5 km. (limit of p. b. ascent) in the course of the next 24 hours. These changes indicated that conditions

were markedly unsettled at the head of the Bay. The unsettled conditions developed into a depression by the next morning with centre slightly to the north of the Sandheads ; the pressure deficiency near the centre of the depression at 8 hours of the 21st must have been at least 0·30″.

The depression moved slowly northwestwards and crossed coast between Balasore and Saugor Island at about midnight of the 21st. Continuing to move in a northwesterly direction, the depression filled up over north Rajputana on the 26th.

As a result of this depression the monsoon was generally active in Burma, northeast India, the United Provinces and its neighbourhood between the 20th and 26th, rainfall being locally heavy along and near its track. According to newspaper reports heavy rain in the Gangetic valley caused severe floods in the Ganges, the Jumna and the Gandak rivers as a result of which the river banks collapsed at many places and considerable damage was done to life and property in the United Provinces and Bihar. Some of the falls of 6″ and over recorded at 8 hours on different days during the period of the activity of this depression are given below :—

Station.	21st.	22nd.	23rd.	24th.	26th.
Central Provinces and Berar.					
Hardwar Marar	..	7	..	6	..
Mahgaban Hansraj	..	..	..	7	..
Mala	..	..	..	6	..
Murwara	..	..	..	7	..
Borina	..	..	..	7	..
Bahori Bund	..	..	..	7	..
Bihar and Orissa.					
Masrakh	..	..	..	6	..
Deoghar	6	..	..	..	..
Balasore	..	..	..	..	10
(Bissipara) Phulbani	6	8	..	..	..
Balandapara	..	8	..	..	..
Khurda	6	..	..	..	..
Kanas	6	..	..	..	..
Sambalpur	..	10	..	..	..
Bargarh	..	6	..	..	..
Jharsuguda	..	7	..	..	..
Dhama	8	8	..	..	..
Palamau	..	6	..	..	..
Mahadnar	..	12	..	..	..
Panki	..	..	8	..	..
Natarhat	..	8	..	..	..
Punjab.					
Palampur	..	9	..	..	..

13. *Unsettled conditions of 25th to 29th August, 1934.*—A low pressure wave from the east passed into the Andaman Sea across Lower Burma after the 23rd and fairly widespread moderate to heavy rain occurred in Tenasserim between the 23rd and 25th ; in this connection conditions became unsettled in the north Andaman Sea on the 25th morning. The unsettled conditions moved slowly northwards and were located in the northeast Bay on the 27th morning. Thereafter the unsettled conditions moved westwards and passed inland into Orissa as a low pressure wave on the 29th. The low pressure wave moved slowly northwards and became unimportant in the course of the next 5 days.

14. *Depression of 6th to 10th September, 1934.*—With the passage of a low pressure wave from the east into the Bay across Burma and the strengthening of the monsoon in the south Bay after the 1st, conditions became markedly unsettled in the east central Bay on the 5th morning. During the course of the next 24 hours the unsettled conditions concentrated into a shallow depression which was centred near Lat. 17° N., Long. 89° E. on the 6th morning ; the cyclonic circulation over the Bay at this time extended at least upto a height of 3 kms. The depression moved northwestwards weakening at the same time and lay with centre about 70 miles to the eastnortheast of Gopalpur at 8 hrs. on the 7th. It passed inland between Gopalpur and Puri by the same afternoon and lay over the east Central Provinces on the next morning. The shallow low moved northwestwards till the 8th afternoon but curved to northeast thereafter and became unimportant over the east United Provinces by the 11th morning.

In connection with this depression the monsoon was strong in Lower Burma, the central parts of the country, east Rajputana and the east United Provinces, rainfall being generally heavy in the last named division on the 9th.

15. *Storm of 17th to 23rd September, 1934.*—A low pressure wave passed into the Bay from the east across Burma after the 12th and widespread moderate to heavy rain fell on the Arakan coast and at Diamond Island on the 13th and 14th. Conditions became unsettled in the northeast Bay by the 16th morning, and a shallow depression formed in the course of the next 24 hours with central region about 75 miles to the southeast of the Sandheads ; on the 17th morning the cyclonic circulation extended upto a height of at least 3 kms. and the monsoon was generally strong over the whole Bay. The depression remained practically stationary for the next two days but intensified at the same time and was centred near Lat. 20° N., Long. 89° E. on the 19th morning. Thereafter the deep depression began to move northwestwards, but continued to intensify further and was a storm by midnight of the 19th. The storm crossed coast slightly to the north of Chandbali at about noon on the 20th when the pressure deficiency at its centre must have been at least 0·40″.

After crossing the coast the storm weakened into a depression which, moving northwestwards, filled up over the west Central Provinces on the 23rd.

Widespread and heavy rain fell along and near the track of this disturbance and the monsoon was on the whole active in Burma and northeast India between the 13th and 23rd and in and around the central parts of the country from the 19th to 23rd. According to newspaper reports heavy rain in

Gwalior State caused considerable damage to property there. Some of the very heavy falls of 10″ or more in 24 hours in connection with this storm are given below :—

Province.	Station.	13th.	14th.	19th.	21st.	25th.
		″	″	″	″	″
Bengal	Dacca	..	10	..	..	..
Ditto	Manickganj	..	11	..	..	..
Ditto	Joydebpur	13	..	..	..	..
Ditto	Kishorganj	..	..	..	10	..
Ditto	Mirsarai	10	..	..	..	..
Ditto	Laksam	10	..	..	..	..
Bihar and Orissa	Bhaisalotam	..	..	..	..	13
Ditto	Pipli	..	..	10	..	..

16. *Depression of 1st to 4th October, 1934.*—On the 28th of September a message was received from the Hongkong Observatory that a typhoon of unknown intensity with a radius of 60 miles and centre at Lat. 17° N., Long. 107° E. was travelling westwards. Fairly widespread and locally heavy rain occurred on the Burma coast on the 28th, 29th and 30th and a depression appeared on the morning charts of the 1st October with central region over the Arakan hills; the cyclonic circulation at that time extended at least upto a height of 2 kms. In the course of the next 24 hours the depression moved slowly northnorthwestwards, intensified at the same time and at 8 hours on the 2nd was centred about 25 miles to the east of Cox's Bazar when the pressure deficiency at its centre must have been at least 0·35″; on the 2nd morning the cyclonic circulation extended in the upper air at least upto the level of the Alto clouds.

Continuing to move in a northnorthwesterly direction along the Chittagong coast, the depression weakened and lay near and to the east of Narayanganj on the 3rd morning. It filled up over Bogra and Mymensingh districts of east Bengal on the 4th.

The depression caused widespread and locally very heavy rain along and near its track in Burma and east Bengal, rainfall was also locally very heavy in Cachar and in Khasi hills in Assam. According to newspaper reports heavy rain was responsible for delay in air, steamer and railway traffic and flooding of some parts in Arakan, east Bengal and Assam; some damage to property and crops was also reported. The following are some of the noteworthy falls of very heavy rain (10″ and over) recorded at 8 hours from the 2nd to 5th October :—

Name of the station.	2nd.	3rd.	4th.	5th.
	″	″	″	″
Buthidaung	10	..	..	..
Cox's Bazar	..	16	..	..
Rangunia	12	..	..	..
Lama	10	..	..	..
Bongaon	..	..	10	10
Dabe	..	..	10	10
Cherrapunji (Police Station)	..	..	22	..
Cherrapunji (Welsh Mission House)	..	..	23	..
Maungdaw	10	..	..	..

17. *Depressions of 13th to 16th October, 1934.*—A low pressure wave from the east passed into the east Bay across Burma between the 9th and 10th. The monsoon was fairly active in the Bay south of Lat. 13° N. on the 10th morning and it strengthened in the course of the next 24 hours as indicated by the backing and strengthening of the upper winds over Port Blair—westerly force 4 to 6 upto 1·5 kms. (limit of p. b. ascent)—on the 10th morning and southwesterly force 6 to 7 upto 2 kms. (limit of p. b. ascent) on the 11th morning. In connection with the above changes a trough of low pressure lay over the region from the southwest Bay to the east central Bay on the 11th and conditions were unsettled at the northeastern end of the trough. The unsettled conditions moved slowly westwards in the course of the next two days and a trough of low pressure lay in the west central Bay off the Circars coast at 8 hours on the 13th. The following ships' observations on that morning (0630 I. S. T.) indicated that conditions were markedly unsettled and a depression was forming at the southwestern end of the trough :—

	Position.		Wind.	Force.	Remarks.
	Lat. N.	Long. E.			
	° ′	° ′			
S. S. "Jalaratna"	17 12	86 30	ESE	4	Heavy rainsqualls between 15 and 19 hours on previous day with ENE wind.
S. S. "Megna"	16 48	84 36	ENE	4	
S. S. "Saugor"	14 18	85 06	W	4	

S. S. Jalaratna experienced a SSE wind force 5 at 09·30 I. S. T. the same morning near Lat. 16° 48′ N., Long. 85° 48′ E. and a SSW wind, force 4 six hours later near Lat. 16° 24′ N., Long. 85° 18′ E. By 11 hours of the 13th a depression had formed off the Circars coast with central region near Lat. 16° 30′ N. and Long. 85° E. The cyclonic circulation on the 13th afternoon extended in the upper air at least upto a height of 3 kms. and the upper winds over Vizagapatam were blowing from northeast between 0·5 and 3 kms. with force 7 to 10.

The depression did not move appreciably between the noon and mid-night of the 13th. Thereafter it seems to have weakened and become unimportant merging into the trough of low pressure which lay off the Circars—Orissa coast on the 14th morning. The surface winds off the Circars-Orissa —southwest Bengal coast (to the northwest of the trough line) at that time were mainly northeasterly and of force 4 to 6 and rain accompanied with squalls was experienced by ships in that region.

Between the 13th and 14th the monsoon had extended northwards in the east Bay along and off the Chittagong-Arakan coast and the upper winds over that region had also strengthened (direction of winds at Chittagong and Akyab on 14th morning being SE to S—force 4 to 8 up to 1·5 kms.) With these changes conditions had become markedly unsettled at the northeastern end of the trough by 8 hours of the 14th and another depression formed off the Orissa coast in the course of the next three hours. It intensified thereafter and at 17 hours its centre lay about 30 miles to the east of Chandbali, the cyclonic circulation extending in the upper air at least up to the level of the Alto clouds.

S. S. Saugor (bound for Calcutta from Colombo) was following the disturbance since the 13th morning and her observations are given below :—

Date.	Hours.	Position.		Bar.	Dir.	Force.	Remarks.
		Lat. N.	Long. E.				
		° ′	° ′	″			
13th October 1934 .	09-30 A.M.	14 32	85 18	29·76	W	5	Showers of rain.
	2 P.M.	15 20	85 42	29·64	WSW	4	
	6 P.M.	16 00	86 00	29·65	SSW	4	
	8 P.M.	16 18	86 15	29·68	S	3	Light wind, slight sea and swell, cloudy overcast.
	12 night	16 55	86 30	29·67	SE	3	Slight sea and swell.
14th October 1934 .	4 A.M.	17 23	86 42	29·66	S	3/4	Gentle Moderate Breeze, slight sea and swell, overcast and clear, vivid lightning.
	6 A.M.	17 48	86 58	29·68	SSE	..	
	8 A.M.	18 05	87 05	29·74	WNW	3	Light wind, low slight swell, overcast, light drizzling.
	12 noon	18 35	87 20	29·76	WNW	3/4	
	2 P.M.	18 50	87 30	29·65	NW	4	
	4 P.M.	19 15	87 33	29·64	WSW	5	Moderate sea, long low swell, cloudy.
	6 P.M.	19 30	87 40	29·65	WSW	5	
	8 P.M.	19 48	87 45	29·72	SW/S	5	Moderate sea and swell, westerly swell, overcast.
	12 night	20 20	88 50	29·65	S	5	Moderate to rough sea rising low short westerly swell, overcast and occasional heavy showers.

The deep depression crossed coast slightly to the south of Balasore at about 22 hours on the 14th ; the pressure deficiency near its centre at that time must have been at least 0·30″. The depression weakened after entering inland and continuing to move northwestwards, filled up over the northwestern districts of Chota Nagpur and the southeastern districts of the east U. P. on the 16th.

It may be pointed out that at no stage of the disturbance were surface winds of steady force more than 6 experienced by either coast stations or ships within a radius of about 150 miles from the centre although during squalls the wind velocity reached force 9 at Vizagapatam on the 13th afternoon and force 8 at the Sandheads and Saugor Island on the 14th.

In connection with this depression an extension of rainfall occurred round the head of the Bay of Bengal between the 12th and 13th, rainfall also extending and being fairly widespread generally in northeast India between the 14th and 16th.

18. *Movement of a low pressure wave from the southwest Bay to the southeast Arabian Sea across south Madras between 27th and 29th October, 1934.*—Pressure fell in the south of the Bay of Bengal between the 25th and 26th and a trough of low pressure appeared in the southwest of the Bay to the east of Ceylon on the 27th morning. In the course of the next 24 hours the trough moved northwestwards and on the 28th morning it lay off the south Coromandel coast. Moving westwards thereafter, it passed out as a low pressure wave into the southeast Arabian Sea across south Madras by the next morning and caused unsettled weather off Malabar-Konkan after the 29th.

In connection with the movement of this low pressure wave widespread rain occurred in south Madras between the 26th and 31st, rainfall extending into the north Madras coast, the Deccan and the Konkan on the last two days ; heavy falls of rain occurred locally on the Coromandel coast, in the ceded districts and Mysore.

Cuddalore 4″ reported on 27th morning.

Negapatam 6″ reported on 28th morning.

19. *The Arabian Sea storm of the 1st to 3rd November 1934.*—By the middle of October, the southwest monsoon had retreated to the extreme south of the Bay of Bengal, and northeast monsoon conditions set in over the south Bay by the 20th. Wide-spread thunderstorm rain occurred in southeast Madras between the 22nd and 25th. Pressure fell in the south Bay between the 25th and 26th and a trough of low pressure appeared to the east of Ceylon on the 27th morning. The trough lay on the 28th off the south Coromandel coast, and during the next 24 hours, a low pressure

wave passed out into the southeast Arabian Sea across south Madras and caused unsettled conditions off Malabar.

On the morning of the 29th, Minicoy was experiencing rough sea and a southeasterly wind of force 3. The upper winds at Colombo were from the southwest (force 6-7) between 0·5 and 3 km. and those at Bangalore, Mangalore and Bellary from an easterly direction (force 4-5) between 1 and 2 km. By the evening, the unsettled conditions became more marked and were extending northwards. *S. S. Masimpur* near Lat. 9°N, Long. 76·30°E. was experiencing at 8 P.M. a SSE wind of force 6, rough sea and rain with squalls.

By the 30th morning, a closed circulation was in evidence as shown by the following wind reports in addition to those of the coastal stations :—

Station or Steamer.	Wind Direction.	Wind Force.
Amini Devi	Southeasterly	2
Minicoy	Southerly	6
S. S. Clan McBride at Lat. 16·53 N., Long. 63·47 E.	NNE'ly	4-5
S. S. "Trier" at Lat. 10·30 N., Long. 63·30 E.	NNE'ly	3

By the next morning, a depression had formed, the surface wind at Minicoy having veered to southwest and maintained its force at 6. On that evening, the depression was centred near 12° 30′N., 71°E. and was intensifying. Rough seas were reported from coastal stations and ships near the coast from Trivandrum to Honavar. *S. S. "Clive"* (14° 36′N., 74° 06′E.) reported, at 15·30 of the 31st, a SSE wind of force 6, skies mainly overcast with cumulonimbus clouds, very rough sea, moderate swell and squally weather. At 8 P.M. of that day, *S. S. "Sirsa"* north of Mangalore had a southeasterly wind of force 5, with frequent rainsqualls and rough seas, while *S. S. "Clan McBride"* lying to the north of the probable centre reported a northeasterly wind of force 5; N to NE'ly winds of force 5 were also reported from ships lying to the northwest of the central region and *S. S. "Liebenfels* at 8° 30′N., 69° 30′E. reported a northwesterly wind, force 5.

On the morning of the 1st November, the depression had intensified into a storm with centre near latitude 14° 30′N., Long. 71° 30′E., *S. S. "British Gunner"* (Lat. 15°N., Long. 71°E.) recorded a northerly wind of force 8 and showers with heavy squalls. Rough to very rough seas were reported from practically all along the coast up to Veraval and at Minicoy and Amini Devi. Upper winds at Mangalore were from S to SW and of force 7-8 up to 3 km. at Bellary and Poona at 1 km., they were from the southeast and eastnortheast respectively (force 9 and 8 respectively). Upper winds at Ahmedabad which were light easterly on the previous day had become northeasterly upto 2 km., and strengthened to force 7-8. The following observations relating to the day from ships round the centre may be of interest :—

1st November 1934.

Name of ship.	Hour I. S. T.	Position. Lat. N.	Position. Long. E.	Pressure.	Wind. Dir.	Wind. Force.	Cloud. Kind.	Cloud. Amount.	Barometric tendency.	Sea.	Swell.	Present Weather.	Present weather Remarks.
		° ′	° ′	"									
S. S. British Gunner .	07-30	15 0	71 0	29·36	N	8	AS	10	Rising slowly.	High	Heavy, northerly.	Showers, heavy squalls in last 3 hours.	Heavy squalls.
S. S. British Gunner .	10-30	14 42	71 12	29·56	NW	6	AS	10	Rising very rapidly.	Rough	Heavy, northwesterly.	Showers	Overcast.
S. S. British Gunner .	17-30	13 48	72 30	29·60	SW	4	..	..	Steady	..	Heavy, southwesterly.	Variable	Cloudy.
S. S. Ranpura . .	11-30	18 48	72 30	29·77	ENE	5	SK, AK C or CS.	9	Rising slowly.	..	Confused	..	Cloudy.
S. S. Takliwa . .	07-30	18 42	64 54	29·81	N	4	CS	6	Steady	Slight	Moderate	Fair	Cloudy.
S. S. Takliwa . .	13-30	14 12	65 42	29·78	NNW	4	K	8	Steady	Slight	Moderate	Fair	Rain in last hour.
S. S. Takliwa . .	17-30	15 42	66 30	29·74	N	6	SK	7	Steady	Moderate	Moderate	Fair	Overcast.
S. S. Takliwa . .	21-30	15 06	67 06	29·82	N	6	S	5	Rising	Moderate	Moderate	..	..
S. S. Bamora . .	20-00	19 41	71 34	29·67	NE/N	6-7	Low	10	..	Rough	Moderate northeasterly.	..	Overcast and dull.
S. S. Ch. N. Kahan .	08-00	19 58	70 16	29·77	NE	6-7	Low	10	..	Rough	..	..	Overcast and rain.
S. S. Ch. N. Kahan .	20-00	19 19	71 52	29·72	NE	7	Low	10	..	Rough	..	..	Overcast and rain.
S. S. Warfield . .	07-30	15 18	73 30	29·57	SSE	6	KN	10	Falling	Rough	Moderate southerly.	Rain	Rain with squalls.
S. S. Warfield . .	10-30	15 00	73 56	29·61	SE	6	KN	10	Rising slowly.	Rough	Confused	Rain	Rain with squalls.
S. S. Karanja . .	08-00	Marmagao	..	29·62	E/S	4-5	Low	10	..	Moderate	Moderate southerly.	..	Overcast.
S. S. Karanja . .	20-00	14 15	73 00	29·64	WSW	5	Low	10	..	Moderate	Heavy, short southwesterly.	Heavy rain squalls.	Overcast squalls.
S. S. Sirsa . .	08-00	16 02	73 25	29·63	E	2	Low	10	..	Slight	Moderate easterly.	..	Continuous light rain frequent squalls.
S. S. Sirsa . .	20-00	18 09	72 37	29·57	NE	6-7	Low	10	..	Rough	Heavy, short, south-southwesterly.	..	Overcast and dull continuous rain frequent hard squalls.
S. S. Clan Macbeth .	11-30	15 24	73 06	29·53	SSE	8	SK	10	Falling quickly.	..	Heavy, short, southerly.	..	Signs that a tropical storm has formed.
S. S. Dogra . .	13-30	18 00	74 42	29·66	SSW	4	KN	10	Falling slowly.	Rough	Confused	..	..
S. S. Liebenfels . .	08-00	8 19	70 59	29·79	WSW	3	..	..	..	..	..	..	..
S. S. Orsova . .	11-30	8 54	68 42	29·89	W	4	CS	7	..	..	Moderate	..	..

The pressure deficiency at the centre of the storm at 8 hrs. as gauged from coastal and ships' observations must have been of the order of 0·50″.

Marmagao recorded a southerly wind of force 8 from 9 hrs. to 13·30 hrs. of the 1st November. Pressure was falling between Marmagao and Ratnagiri on the coast. The available observations show that the storm was intensifying and moving in a northeasterly direction during the day. The 17 hrs. chart showed a well marked rainfront running from SW to NE from Bombay-Ratnagiri to the neighbourhood of Jubbulpore. By the morning of the 2nd, the storm was centred near Lat. 16° 15′N., Long. 71° 45′E. Surface winds and seas had however moderated in general. Only *S. S. "India"*, situated at 17°N. and 64°E. reported a rough sea and a northeast wind of force 6 and the sea at Bombay continued to be rough. Upper winds also had weakened except at Ahmedabad where they were still of force 7-9 up to 2 km., and were northeasterly in direction. The storm remained practically stationary till the afternoon. Pressure was however rising along the coast during the day, although winds of force 6 were recorded by *S. S. Takliwa* (18° 25′N. and 71° 50′E.) even at 2 hours of the 3rd, by 8 hrs. of this date, however, weather had definitely moderated and the storm had weakened into a depression with its centre about 100 miles to the southwest of Bombay. The depression moved northwards during the day and a southeasterly wind of force 5-6 and a southerly wind of force 8 were recorded at the surface and 0·2 km., respectively at Bombay in the evening. At 8 hours on the 4th, Bombay surface winds maintained force 6 at the lower levels. Pressure had risen considerably since the previous day in the Konkan, and only a shallow depression was centred near about Lat. 19°N. and Long. 71° 30′E. By that afternoon the depression was filling up off the Kathiawar coast and the weather became normal by the evening of the 5th.

In connection with the formation and movement of this storm, widespread rain occurred in the Madras Presidency and Mysore between the 26th October and 2nd November, and in the west of the Peninsula between the 30th October and 4th November, the rainfall extending into the west Central Provinces between the 1st and 5th and into Gujarat and west Central India between the 3rd and 4th. Newspaper reports indicate that heavy rain in the Bombay Deccan caused floods in many rivers and was responsible for damage and casualties at some places.

20. *Storm of 5th-9th November 1934.*—Signs of a strengthening of the northeast monsoon in the southeast of the Bay of Bengal were noticeable on the 4th morning, Victoria Point and Sabang having 3″ and 2″ of rain respectively in the previous 24 hours; on that morning upper winds upto 1 km., (the limit of P. B. ascent) were easterly both at Victoria Point and Port Blair, the wind force being 4-9 at the former station and 3-5 at the latter. During the next 24 hours pressure fell in and around the Andaman Islands and a depression had formed by 8 hrs. of the 5th with centre near Lat. 10°N. and Long. 91° 30′E. Upper winds over Port Blair had also strengthened and were blowing on the 5th morning from eastnortheast to east with force 8-10 upto 1 km., (the limit of P. B. ascent); Port Blair and Car Nicobar had 2″ of rain each between the 4th and 5th.

The depression intensified during the day, and at 17 hrs. was centred near Lat. 10° 15′N. and Long 90° 15′E.; *Warship Hawkins* reported SE wind of force 7 and very rough sea at 2-30 P.M. near Lat. 11° 45′N., Long. 92° 45′E. While moving northwestwards, the depression intensified further and was a storm on the 6th morning with centre at 8 hrs. near Lat. 10° 45′N., Long. 88°E. *S. S. Jalatarang* experienced NNE wind of force 8 near Lat. 11° 18′N., Long. 88°E. at 05-30 hrs. on the 6th morning and *S. S. British Gunner*, WNW wind of force 9 near Lat. 10° 24′N., Long. 87° 48′E. one hr. later. The pressure deficiency at the centre was about 0·40″ on the 6th morning. Between the 5th and 6th the upper winds over Port Blair had veered to southeasterly from easterly, an indication that the storm would move more to the north than west. During the course of the next 24 hours the upper winds at Port Blair veered further to southwest through south and with this the storm also curved to the northeast through north and at 8 hrs. on the 7th was centred near Lat. 13°N., Long. 88°E. On the 7th morning the cyclonic circulation extended into the upper air at least upto the Altocumulus level.

S. S. Jalatarang was near the storm centre on the 6th and 7th and her observations from 5th to 8th are given below :—

Date.	Hour.	Position.		Bar.	Wind.		Remarks.
		Lat. N.	Long. E.		Dir.	Force.	
		° ′	° ′	″			
5th November, 1934	5-30	9 54	86 48	29·80	NE	2	Sea smooth, swell low from S, (Shower).
5th November, 1934	8-00	10 18	86 12	·80	NE	3	Sea slight, swell moderate from NE, continuous rain.
5th November, 1934	20-00	10 54	87 24	·72	N/W	4	Throughout day 8 P.M.—12 P.M., frequent rain-squall.
6th November, 1934	5-30	11 18	88	·41	NNE	8	Sea very rough, swell heavy from NE, (Rain, Squalls).
6th November, 1934	8-00	11 24	88	·49	NE	7	Sea rough, swell heavy from NE, frequent heavy rain-squalls throughout day and night, sea rough, swell moderate from SE.
6th November, 1934	20-00	11 54	88 24	·45	ESE	6	
7th November, 1934	0-00	12 06	88 42	·52	ESE	7	Sea rough, swell moderate from SE, rain with squalls (Dr., Sq.).

Date.	Hour.	Position.		Bar.	Wind.		Remarks.
		Lat. N.	Long. E.		Dir.	Force.	
		° ′	° ′	″			
7th November, 1934	6-00	12 18	89 12	·62	S	6	Sea rough, swell heavy from S, (Rain).
7th November, 1934	8-00	12 12	89 12	·64	S	5	Sea rough, swell moderate from SE, occasional rain-squalls.
7th November, 1934	16-00	13 30	90 24	·64	S	6	Squally weather, sea rough, swell heavy from S, (Shower, Squally).
7th November, 1934	19-00	13 42	90 54	·69	SSE	6	Sea rough, swell confused, (Confused).
7th November, 1934	20-00	13 42	90 54	·69	SSE	6	Rain-squall between 9 P.M. and midnight. Sea moderate, Swell moderate, (Confused).
8th November, 1934	1-00	13 48	91 18	·74	S	6	Rain with squall, sea rough, swell heavy from S, (Squall).
8th November, 1934	7-00	14 18	92 18	·76	SSE	5	Sea rough, swell heavy from S, (Shower, Squall).
8th November, 1934	8-00	14 18	92 24	·76	S/E	5	Sea moderate, swell moderate from S.
8th November, 1934	20-00	Off Table Island.		·79	SSE	3	Sea slight, swell moderate from S.

N.B.—Remarks within bracket denote past weather remarks.

It will appear from her observations that at no stage did she experience wind of force more than 8.

Moving northeastwards the storm was centred near Lat. 15° 40′N., Long. 89° 20′E. at 8 hrs. on the 8th and near Lat. 18° 45′N., Long. 91°E. at 8 hrs. on the next day. The storm weakened while approaching the Chittagong-Arakan coast and entered inland between Akyab and Cox's Bazar at about 23 hrs. of the 9th; it broke up in the Arakan Hills by the evening of the 10th. The pressure deficiency at the centre of the storm when it passed inland must have been at least 0·26″.

The storm was of small extent when it formed but the storm field extended after the 6th morning.

In connection with this storm widespread and locally heavy rain occurred in Burma excepting Tenasserim and on the Chittagong coast on the 8th and 9th.

21. *Storm of 25th-27th November, 1934.*—On the 23rd morning generally light northeasterly winds prevailed over the Bay above Lat. 5°N. In the course of the next 24 hrs. winds from southerly direction advanced northwards upto about Lat. 7°N. and signs of the intensification of the seasonal low in the south of the Bay of Bengal were noticeable on the 24th morning. By the next morning a depression had formed with centre near Lat. 8° 30′N., Long. 87° 30′E.

The depression moved northwestwards, intensified at the same time and in the afternoon of the 25th was a storm as indicated by the observations of *S. S. Aungban* (Rangoon to Bombay), *S. S. Gogra* (Bombay to Rangoon) and *S. S. Wildenfels* (Tuticorin to Rangoon) which are given below:—

Name of ship.	Date.	Hour.	Position.		Bar.	Wind.		Remarks.
			Lat. N.	Long. E.		Dir.	Force.	
			° ′	° ′	″			
Aungban . .	25th November, 1934	12-00	10 14	86 49	29·75	NE/E	7	Frequent heavy rain-squalls, overcast, cloudy.
	25th November, 1934	16-00	09 46	86 18	·64	NE/E	7	Frequent squalls.
	25th November, 1934	20-00	09 38	86 29	·78	E/N	8	Frequent squalls.
	25th November, 1934	00-00	09 38	86 37	·65	ESE	7-8	Squalls less frequent.
	26th November, 1934	04-00	09 38	86 42	·66	SSE	6-8	Squally.
	26th November, 1934	08-00	09 23	86 58	·77	S/W	4-5	Occasional showers.
	26th November, 1934	12-00	09 07	86 40	·77	S/W	3	Slight swell.

Name of ship.	Date.	Hour.	Position.		Bar.	Wind.		Remarks.
			Lat. N.	Long. E.		Dir.	Force.	
			° ′	° ′	″			
Gogra . . .	25th November, 1934	12-00	07 57	84 03	·85	NNW	4	Overcast, passing showers.
	25th November, 1934	16-00	08 05	84 26	·70	NW	6	Overcast, passing showers.
	25th November, 1934	20-00	08 12	84 48	·74	NW	6-7	Passing showers.
	25th November, 1934	00-00	08 20	85 11	·72	NW/N	8	Overcast, Rain.
	26th November, 1934	04-00	08 27	85 34	·65	SW/W	6	
	26th November, 1934	08-00	08 35	85 56	·68	SW	5	
	26th November, 1934	12-00	08 44	86 20	·79	SSW	6	
Wildenfels . .	25th November, 1934	12-00	09 28	86 32	·72	NNE	6	Squally.
	25th November, 1934	16-00	09 36	86 27	·59	E	8	Squally.
	25th November, 1934	20-00	09 45	86 23	·61	NE	9	Squally.
	25th November, 1934	00-00	09 53	86 18	·51	NE	8	Squally.
	26th November, 1934	04-00	10 02	86 14	·49	SSE	8	
	26th November, 1934	08-00	10 09	86 09	·72	SSE	5	
	26th November, 1934	12-00	10 17	86 04	·76	SSE	4	

Moving westnorthwestwards the storm was centred near Lat. 10°N., Long. 83° 30′E. at 8 hrs. of the 26th *S. S. Gharinda* (Jaffna to Madras) and *S. S. Elephanta* (Negapatam to Port Swettenham) were in the storm field between noon of the 26th and noon of the 27th. Extracts from their logs are given below :—

Name of ship.	Date.	Hour.	Position.		Bar.	Wind.		Remarks.
			Lat.	Long.		Dir.	Force.	
			° ′	° ′	″			
Gharinda . .	26th November, 1934	12-00	09 49	79 49	29·81	N	3	
	26th November, 1934	16-00	09 56	80 00	·69	NNW	5-6	Rain.
	26th November, 1934	20-00	10 02	80 12	·70	NW/N	7-8	Squall Rain.
	26th November, 1934	00-00	10 09	80 23	·59	N/W	8	Squall Rain.
	27th November, 1934	04-00	10 15	80 35	·35	N/E	8	Hurricane force squalls Rain.
	27th November, 1934	08-00	10 22	80 46	·56	SE/E	8	Overcast, Squall.
	27th November, 1934	12-00	10 30	80 56	·62	ESE	8	Overcast, Squall.
	27th November, 1934	16-00	10 50	80 58	·68	SE/E	7	Rain.
	27th November, 1934	20-00	11 20	80 54	·77	E	5	
Elephanta . .	26th November, 1934	16-00	10 40	80 06	·71	NNW	4	Drizzle.
	26th November, 1934	18-00	10 35	80 28	·68	N	5	Squall.
	26th November, 1934	22-00	10 25	80 54	·60	N/E	6	Squall Drizzle.
	27th November, 1934	02-00	10 11	81 17	·42	N/E	3-4	Overcast.
	27th November, 1934	03-00	10 09	81 25	·38	SSW	4-5	Rain.
	27th November, 1934	04-00	10 08	81 31	·44	SSW	8	Rain.
	27th November, 1934	05-00	10 08	81 37	·51	SSW	8	Rain.
	27th November, 1934	08-00	10 08	81 55	·73	S/W	6	
	27th November, 1934	12-00	09 31	82 29	·77	SSW	5	

After 8 hrs. of the 26th, when the centre lay about 250 miles to the southeast of Negapatam, the storm moved more to the west than westnorthwest. *S. S. Gharinda* was nearest the storm centre at about 4 A.M. on the 27th and from her barometer readings given above it appears that the pressure deficiency at the centre at that time was between 0·40″ to 0·50″. *S. S. Elephanta* was nearest the storm centre at about 3 A.M. on the 27th and her barometer readings given above also show that the pressure deficiency at the centre at that time was of the same order. The wind force reported by this steamer indicate that light winds prevailed near the centre. It is, also, clear from available observations of steamers which were in the storm field that winds of steady force more than 9 were not experienced at any stage of the storm, although occasional squalls of hurricane force were reported by *S. S. Gharinda* at 4 A.M. on the 27th and the storm was, therefore, not of severe intensity.

The storm weakened to some extent while approaching the Coromandel coast and passed inland to the south of Negapatam at about 14 hrs. on the 27th. Thereafter it weakened rapidly into a low pressure area which filled up over southeast Madras on the 28th. The disturbance was responsible for fairly widespread rainfall in the south of the Peninsula between the 26th and 28th.

Below is given an extract from the report of the Port Officer, Negapatam :—

" Barometer reading at 08·00 hours on 26th November, 1934, 30·036 with attached thermometer—75°, the force of the wind from NW being 2, kept steady and then veering to NNW until 10 hrs. On 27th November 1934 when it veered to NNE, force 6, sea high with heavy swell.

" Barometer reading at 08 hrs. on 27th November, 1934—29·900, with attached thermometer—77°, direction of wind—NNE, force 6, sea high with heavy swell, rainfall for past 24 hrs.—3·04 inches.

" The force of the wind increased to 7 when it veered to NE at 11 hrs, to ENE at 14 hrs. and to E at 23 hrs., the force all along remaining at 7. The wind veered to ESE at 1·15 hrs. on 28th November, 1934, the force of the wind moderating to 5. Rainfall for the past 24 hrs. recorded at 08 hrs. on 28th November, 1934—1·30 inches.

" The port experienced squally weather with high sea and heavy swell on 27th November 1934. On 28th November 1934, the weather became fine with sea, slight."

WESTERN DISTURBANCES.

The following is a list of the Western Disturbances which affected the weather in northern India during the year with the dates on which they did so and brief notes on the precipitation that they produced :—

Serial No.	Date.	Remarks.
	January.	
1	1—5 . .	Local falls of rain or snow in Kashmir from the 1st to 3rd and in the North-West Frontier Province on the 1st and 2nd; nearly general rain in the east and north Punjab with a few light showers in the southwest Punjab and in and near the Kumaon hills on the 1st and scattered light showers in and near the Punjab-Kumaon hills on the 2nd and 3rd. In connection with this disturbance a secondary low appeared over the east Punjab and the west United Provinces which gave widespread rain or snow in Kashmir and in and near the Punjab-Kumaon hills on the 4th and scattered falls in those divisions on the next day.
2	7—8 . .	Scattered light showers in east Rajputana and the west United Provinces on the 7th and local rain in the east and north Punjab and the east United Provinces with a few falls in Kashmir and the west United Provinces on the 8th.
3	*January*—contd. 9—13 . .	Fairly widespread rain or snow in Baluchistan and along the western Himalayas on the 9th and in Kashmir and the east and north Punjab on the next day. Extensive thundershowers in the United Provinces and east Central India with a few falls in east Rajputana and the west Central Provinces on the 10th; scattered falls of rain in Kashmir and from the Punjab to Assam on the 11th and from the United Provinces to Assam and in the Punjab hills on the 12th, and nearly general rain in Assam with a few falls in Bengal on the 13th.
4	12—13 . .	Local rain or snow in Kashmir on the 13th.
5	16 . . .	A few falls of rain or snow in and near the Punjab hills on the 16th.
6	18—23 . .	A few falls of rain or snow in Kashmir on the 19th, scattered falls along the western Himalayas on the next two days and a few falls of rain in Assam on the 23rd.
7	22—30 . .	Duststorms with scattered showers in north Baluchistan and widespread rain or snow in the western Himalayas with local falls in the North-West Frontier Province between the 27th and 29th. A secondary depression which formed over the east Central Provinces on the 29th gave scattered falls of rain in the United Provinces, Central India, Bihar, Chota Nagpur and Bengal on the 29th.

Serial No.	Date.	Remarks.
	February.	
8	5—8 . .	Light local showers of rain or snow in Kashmir on the 7th.
9	9—11 . .	Gave no precipitation.
10	18—20 . .	A few light showers in Kashmir on the 19th.
11	20—22 . .	A few light showers in Kashmir on the 20th and 22nd and nearly general showers of rain or snow there on the 21st.
12	24—27 . .	Local falls of rain in the North-West Frontier Province, Kashmir and the Punjab hills between the 24th and 26th; in the rear of the disturbance fairly widespread duststorms also occurred along and near the northwest frontier on the 25th.
	March.	
13	4—7 . .	Local rain in Baluchistan and the west Central Provinces on the 4th, nearly general thunderstorm rain in east Central India and local rain in the southwest Punjab, the United Provinces and the west Central Provinces with fairly widespread light showers in the plains of northwest India on the 5th and widespread rain and thunderstorms from the North-West Frontier Province to the United Provinces on the next two days.
14	7—12 . .	Extensive rain in and near the hills of northwest India and thunderstorms in north Baluchistan, the plains of the east and north Punjab and the United Provinces on the 8th and fairly widespread rain in the North-West Frontier Province, Kashmir and the Punjab on the next two days; scattered falls continued in Kashmir on the 11th and 12th.
15	16—21 . .	A few light showers in Kashmir on the 17th and 18th and scattered dust or thunderstorms in north Baluchistan and lower Sind on the latter date; fairly widespread thundershowers in the North-West Frontier Province on the 19th and 20th and scattered thunderstorms in lower Sind on the 19th, in Gujarat on the 19th and 20th and in the north Punjab, north Baluchistan and west Rajputana on the latter date.
16	24—26 . .	Scattered light showers in the North-West Frontier Province, Kashmir and the east and north Punjab on the 24th and nearly general rain or snow in Kashmir on the 25th with local showers there on the next day and in the North-West Frontier Province and the Punjab hills on the 25th.
17	28—30 . .	A few falls of rain in Baluchistan and local rain in Kashmir on the 28th, 29th and 30th with a few light showers in the North-West Frontier Province on the first two dates and in the Punjab hills on the 29th.
	April.	
	1—2 . .	A few falls of rain in Kashmir on the 1st and nearly general rain or snow there on the 2nd, with local falls of rain in the North-West Frontier Province and in the adjoining hills of the Punjab on the latter date.

Serial No.	Date.	Remarks.
	April—contd.	
19	6—7 . .	Fairly widespread rain on the 6th and local rain on the next day in Kashmir and a few falls in the North-West Frontier Province and the Punjab hills on the 6th and 7th.
20	8—12 . .	Fairly widespread thundershowers in the North-West Frontier Province from the 8th to 11th and local showers in Kashmir on the 8th, 9th and 11th, in the south-west Punjab on the 10th and in the whole of the Punjab and the Kumaon hills on the next day; light showers also occurred in north Baluchistan on the 8th and 9th and along and near the western Himalayas on the 12th.
21	15—19 . .	Local rain in Kashmir on the 18th.
22	20—25 . .	Fairly widespread thunderstorms and rain in the North-West Frontier Province between 22nd and 24th, in Kashmir from 22nd to 25th, in Baluchistan on the 22nd and 23rd and in the east and north Punjab from 23rd to 25th.
23	27—30 . .	Local rain in Kashmir on the 29th and 30th.
	May.	
24	2—5 . .	Local rain in Kashmir on the 2nd and 3rd and scattered showers in the western Himalayas on the next two days.
25	6—13 . .	Fairly widespread dust or thunderstorms in the hills of northwest India on the 7th, 9th and 10th and in the plains of the Punjab from the 8th to 12th; fairly widespread rain in the North-West Frontier Province from the 9th to the 11th and in Kashmir on the 8th, and local rain in the latter division from the 9th to 13th and in and near the Punjab hills on the 8th and 12th.
26	15 . . .	Gave no precipitation.
27	16—18 . .	Fairly widespread thundershowers in the North-West Frontier Province and Kashmir from the 16th to the 18th with scattered dust or thunderstorms in Baluchistan on the 17th, in the Punjab on the 17th and 18th and in east Rajputana, west Central India and the west Central Provinces on the latter date.
28	19—21 . .	Scattered light showers in the North-West Frontier Province and Kashmir on the 19th and 21st and local rain in Kashmir and the Punjab Kumaon hills with scattered dust or thunderstorms along the north-west frontier and in the plains of the Punjab on the 20th.
29	22—24 . .	A few thundershowers along the north-west frontier on the 22nd and local rain in the North-West Frontier Province and a few falls in Kashmir, on the 24th.
30	26—28 . .	Scattered dust or thunderstorms in north Baluchistan on the 26th and in the hills of north-west India and in the north Punjab on the next day with local rain in Kashmir on the 27th and 28th; widespread thunderstorm rain in the Punjab-Kumaon hills and scattered light showers in the North-West Frontier Province and the plains of the east and north Punjab on the 28th.

Serial No.	Date.	Remarks.
	May—contd.	
31	30—31 . .	Local thundershowers in the North-West Frontier Province and Kashmir and a few falls in the east and north Punjab on the 30th and 31st.
	June.	
32	6—10 . .	Dust or thunderstorms and local rain in north-west India between the 6th and 8th; showery weather continued in Kashmir upto the 10th.
33	15 . . .	Gave no precipitation.
34	16—17 . .	Widespread dust or thunderstorms in the hills of north-west India on the 16th and 17th and in the plains of the Punjab on the former date.
	July and August .	No well marked western disturbances.
	September.	
35	22—25 . .	Scattered thundershowers in the North-West Frontier Province and Kashmir from the 22nd to 25th, rainfall also extending in the Punjab and the Kumaon hills on the 25th.
	October.	
36	5—7 . .	Local showers in the North-West Frontier Province on the 5th and a few falls there on the next day.
37	8—10 . .	Local rain in Kashmir and a few falls in the North-West Frontier Province and the Punjab hills on the 9th.
38	17 . . .	A few falls of rain in Kashmir on the 17th.
39	19—20 . .	A few light showers in the Murree hills and Kashmir on the 19th.
40	26 . . .	A few light showers in Kashmir on the 26th.
	November.	
41	5—6 . .	Scattered falls of rain or snow in Kashmir and a few light showers in the North-West Frontier Province on the 5th and 6th.
42	9—13 . .	Light showers of rain or snow in Kashmir between the 10th and 13th.
43	14—17 . .	Scattered falls of rain in the North-West Frontier Province and Kashmir on the 15th and 16th.
44	20—25 . .	A few falls of rain in Baluchistan on the 21st and 22nd, and a few light showers of rain or snow in Kashmir between the 22nd and 24th.

Serial No.	Date.	Remarks.
	December.	
45	1—5 . .	Gave no precipitation.
46	5—8 . .	Light showers in the North-West Frontier Province on the 8th.
47	9—12 . .	A few light showers in the North-West Frontier Province on the 10th, 11th and 12th.
48	12—14 . .	A few light showers in Baluchistan on the 12th and 13th; nearly general rain in the North-West Frontier Province on the 13th and light local showers in Kashmir and the north Punjab on the 13th and 14th.
49 & 50	14—18 and 18—19	These two disturbances were responsible for fairly widespread rain along the north-west frontier on the 14th and 15th, in Kashmir from the 14th to 16th, in the east and north Punjab between the 15th and 18th and in and near the hills of the United Provinces on the 16th, 17th and 18th. The low pressure area formed as a result of these two disturbances finally passed away after causing light showers in Kashmir and the Punjab hills on the 19th.
51	19—20 . .	Light local showers along the north-west frontier on the 19th and 20th and a few falls of rain or snow in Kashmir and the Punjab hills on the latter date.
52	21—23 . .	Nearly general rain in Baluchistan on the 21st and 22nd and local rain in Kashmir with a few light showers in the North-West Frontier Province, the Punjab and west Rajputana on the latter date; local rain in Kashmir with fairly widespread rain in the east and north Punjab and the west United Provinces and a few falls in Rajputana and the North-West Frontier Province on the 23rd.
53	24—28 . .	Fairly widespread rain in Baluchistan on the 24th and 25th and local rain or snow in Kashmir on the 25th, 26th and 27th, in east Rajputana on the 26th and in the Punjab-Kumaon hills on the 28th; a few falls also occurred in Baluchistan, the west United Provinces and west Central India on the 26th, in the Punjab and west Central India on the 27th and in the United Provinces and the west Central Provinces on the next day.
54	29—30 . .	A few falls of rain or snow in Kashmir on the 29th and 30th.
55	31 . . .	A few light showers in Baluchistan on the 31st. The disturbance was still affecting the country at the end of the month.

LOCAL STORMS.

Of the local storms reported in the newspapers, the following are noteworthy :—

January 23rd.—A whirlwind raged over a small area near the village of Ram Krishnandi (Dacca District) at about 2 A.M. It overtook a boat which sank in the river Dhaleshwari on its way to Dacca, resulting in 5 deaths.

February 16th.—Two Europeans and two Indians were drowned when a thunderstorm arose, while they were crossing the river Brahmaputra off Dhubri.

February 17th.—Seven persons were killed and fourteen injured in the village Sapaihat and Raiwail (Rajshahi District) by a severe thunder and hailstorm, which destroyed many houses, rendering a large number of people homeless. Big trees were uprooted and crops damaged.

February 22nd.—A severe nor'wester passed over the Santhia and Boalmari villages (Pabna District) at about 2 P.M. Several houses were blown away and many persons rendered homeless.

March 2nd.—A country boat which was carrying a large number of passengers to Kakatpur (Puri District) was caught in a violent thunderstorm in the Devi river and capsized, as a result of which about 50 persons were reported to have been drowned.

April 9th.—A severe thunderstorm attended with a heavy downpour passed over Tangail and caused considerable damage in the interior of the sub-division from Gopalpur to Dhanbari. At Shajanpur a large number of houses were razed to the ground. Hundreds of people were rendered homeless in Madhupur, electric wires were torn asunder and the town was in darkness for hours together.

April 11th.—A boat with passenger and valuable goods was reported to have capsized in the Karnafuli river (Chittagong District) during a heavy gale attended with thunderrain.

April 19th.—Electric lights failed and trees were uprooted when a duststorm swept over Dhulia (Khandesh). A boy aged 10 years was crushed to death by a falling tree.

April 24th.—As a result of a severe storm accompanied by heavy showers in Hapur (United Provinces) roofs were blown off, trees were uprooted, telephonic communications were cut off, electric poles were unhinged and the town was plunged in darkness.

Four persons were killed and considerable damage to property caused by a thunderstorm in Muzaffarnagar (United Provinces). A godown of the Upper Jumna Swadeshi Sugar Mills at Mansurpur collapsed and the water tank was blown off. Scores of trees were uprooted.

April 29th.—A severe duststorm which passed over Meerut caused considerable loss to life and property. Over 500 trees were uprooted, and many persons and animals were found dead along the roadside.

April 30th.—Twenty persons were killed while considerable damage was done to property by a nor'wester which passed over Sylhet and its suburbs. Numerous houses were blown away or collapsed and big trees were uprooted. Telegraph and electric wires were cut. The Government steam launch "*Lindsay*" sank and a number of cargo laden boats capsized in the Surma river.

A severe thunderstorm which passed over Karimganj Sukdio (Sylhet) caused boats to capsize in the river, 18 deaths were reported from Jaldhup (Sylhet) alone.

Vandiperiyar in Madura District experienced severe thundersqualls. It was reported that telegraph posts and several trees between Vellodu and Ambaturai stations on the S. I. Ry. were uprooted and a portion of a station roof was blown off.

May 1st.—Many trees were uprooted and cottages damaged in a severe duststorm which blew over Chittagong. The storm lasted one hour during which the town lights failed.

May 3rd.—Two middle-aged merchants of the village of Cheym were reported to have been struck with lightning about ten miles from Tirupur and died on the spot.

May 5th.—A severe tornado passed over the district of Cachar. Houses were blown off and several people died.

May 6th.—A heavy hailstorm over Narkaliaganj, Champaran. Almost all the houses collapsed and several persons and cattle were killed.

May 7th.—Eight coolies were killed and fifteen hopper trucks capsized as the result of flooding of the cooly camp at Dittockcherra on the Assam-Bengal Railway by heavy gusting down of the rain waters from the hills. Through running of trains was temporarily suspended.

May 8th.—A big boat loaded with 6,500 gallons of crude oil capsized near Myannah landing stage and trees were uprooted as a result of a severe duststorm in Myingiyan District. Yenangyaung also suffered from a severe duststorm accompanied by thunder resulting in a fall of considerable depth of dust.

May 11th.—Severe duststorms, resulting in some accidents, were reported from a number of Punjab towns. The train service between Ludhiana and Lodhowal had to be suspended for more than six hours owing to a storm which brought down many trees on the railway line.

A severe duststorm struck the Terath Laki Station, between Kotri and Dadu on the N. W. Railway, blew down twelve menials' quarters besides badly damaging some officer's quarters. The station building was also damaged.

May 13th.—Three women were killed by lightning in Malapuram, a village near Virudhanagar.

It was reported that two children were killed by a falling tree while roofs of several houses were blown off and many trees uprooted as the result of a severe thunderstorm accompanied by heavy rain and hail in Toungod.

May 14th.—Two youths were killed by lightning in Ammanpatti, a village in Ramnad District.

One person was killed, another seriously injured and some children received minor injuries as a result of a thunderstorm which swept over Poona.

May 15th.—Eighteen telegraph posts between Koilpatti and Nalli Stations on the S. I. Ry. were uprooted as result of a severe thunderstorm. Thatched and tiled roofs of nearly

900 houses were also blown away or pulled down by the storm.

A motor bus was overturned and an old woman was killed outright due to heavy wind on the Madura-Aruppu Kotta road

May 16th.—A terrific gale swept over Arliam near Prome, besides minor devastation, two cotton godowns belonging to a firm collapsed resulting in the death of four Burmese women labourers and injury to nine others.

May 18th.—Hundreds of thatched houses were destroyed, telephone and telegraph wires were cut, trees were uprooted in Calcutta and its suburbs as the result of one of the severest thunderstorms experienced in living memory. Half a dozen cargo boats carrying paddy, rice, bricks and logs of wood also went down.

A severe thunderstorm passing over Karimganj (Assam) sank the steamer "*Juna*" in the river Kushjara some two miles off from Karimganj.

May 21st.—Two persons were killed by a severe thunderstorm which swept over Rangpur.

A thunderstorm which swept over Dacca caused the steam launch "*Kashuit*" belonging to the Nawab of Dacca's family to be sunk in the river Buriganga. A portion of the European military barracks also came down.

A coolie was killed and two others were seriously injured by lightning near the race-course at Madura.

May 22nd.—Two persons were killed by lightning in a thatched shed in Kanjaraenpettai village in the Madura District.

May 23rd.—As a result of a severe thunderstorm over Dannbyu in Maubin District, six buildings collapsed and the entire row of structures on the eastern side of the pagoda were razed to the ground. A bullock was killed by lightning.

May 24th.—During a severe thunderstorm in Rangpur, the pilkhana of Raja Bahadur of Tajhat collapsed on an elephant resulting in instantaneous deaths of two mahouts.

A violent hailstorm which resulted in some boats being sunk, swept near the village of Mayhand, situated on the bank of the Indus (Karachi).

May 26th.—A severe hailstorm passed over Sirajganj Sub-Division. Two persons met with death due to lightning.

Three persons were killed, several houses were blown off and a large number of trees uprooted when a severe thunderstorm passed over Chourhash and other villages several miles from Kushtia.

A thunderstorm passed over the western portion of the Sadar Sub-Division (Rajshahi), resulting in one person being killed and a large number injured. The Lalitnagar Leprosy Hospital of Rajshahi District Board was completely demolished. Several railway stations were also damaged.

May 27th.—At furious thunderstorm swept over the town of Bhola (Barisal). Many houses were blown down and two persons were killed by lightning.

Four men were crushed to death by a tree falling on a hut in which they had taken shelter when a terrific thundersquall was blowing near Krishnapuram, thirty miles from Viradhanagar (Madras).

Four boats that were securely anchored broke their cables and were pitched into the river Indus as a result of a violent hailstorm near Maujhand town (Karachi). Two of these boats capsized. Another small boat was smashed to pieces. Residential quarters in Maujhand were extensively damaged. Hundreds of trees and many telegraph poles were also uprooted.

May 28th.—As the result of a storm at Twante (Rangoon) trees were uprooted and more than 100 houses blown down. A Government steam launch lying at anchor at a jetty, got sunk. A fully loaded sampan was smashed to pieces, when it was lifted from the water and hurled ashore.

May 29th.—As a result of a severe thunderstorm that swept over villages in Haveli, Khargpur and Tarapur Thanas (Bihar) two persons were killed, several houses blown off and a number of trees uprooted.

May 31st.—Eleven women and the Sexton of the Catholic Church at Ayarkannam (Travancore) received severe burns when the Church was struck by lightning. The Church tower was demolished. A fire also broke out inside the Church but was extinguished.

June 3rd.—Two Sikh carpenters were struck by lightning and killed at Kapurthala.

June 4th.—Two persons were struck by lightning during a severe thunderstorm which passed over Simla. Both were struck unconscious and received burns.

A woman at Halisahar (Chittagong) was struck to death by lightning during a thunderstorm accompanied by rain.

June 6th.—A peasant with his two bullocks were instantaneously killed by lightning during a storm in Barisal while ploughing his fields.

Several lives were lost in a boat disaster during a thunderstorm of severe intensity which passed over a part of the Patuakhali Sub-Division.

June 11th.—Fifty people were crushed to death by the collapse of a "Dharamshala" in Rahata (Ahmednagar District) due to sudden heavy rain accompanied by strong wind.

June 12th.—At Asansol, two persons at the Dadka colliery about one mile to the north of the town were struck by lightning and were instantaneously killed.

June 13th.—Three persons were killed by the collapse of a mud wall of a house during a severe thunderstorm at Conjeevaram.

June 14th.—One person died and twelve persons were injured due to house collapse caused by a severe tornado which swept over Natundi and other villages in Purulia.

June 16th.—Instantaneous death of two cultivators from lightning shock was reported to have occurred within Ramganj Thana in Noakhali District.

June 19th.—The town of Meerut was plunged into darkness for a short time due to a storm. The second storey of a half-built structure collapsed killing two persons.

September 19th.—Fortyfive persons were missing as the result of the capsizing of a District Board Ferry during a gale that occurred about 10 miles west of Noakhali.

WINDS OF FORCE NINE OR MORE IN INDIAN SEAS.

Excluding dates of storms and depressions, a description of which has been given above, winds of force nine or more were recorded on ships in the Indian seas during the year 1934 on the following occasions.

Date.	Name of ship.	Approximate Position.	
		Lat. °N.	Long. °E.
28th June . .	s.s. Lichenfel . .	between 13 & 12	between 59 & 60
29th „ . . .	s.s. Tabian . .	15	between 59 &60
6th July . . .	s.s. Tanfield . .	14	84
10th „	s.s. Lichtenfels .	12	58
29th „	s.s. Rotenfels .	between 13 & 12	between 57 & 59
17th August . .	s.s. Oxfordshire .	13·41	92·2

MG1PC—M—VIII-3-161—14-1-36—515.

Reg. No. 3390 E/24.

Rec. No. 3500 E.24.

NO—WR 34/D.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1934

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ANNUAL SUMMARY

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C. W. B. NORMAND, M.A., D.Sc.,

Director General of Observatories.

PUBLISHED BY MANAGER OF PUBLICATIONS, DELHI
PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, NEW DELHI.
1936

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METEOROLOGICAL DEPARTMENT

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ANNUAL SUMMARY.

PART D.

SEISMIC RECORDS.

STATION—AGRA.

Lat. 27° 8′ 15″ N. Long. 78° 0′ 45″ E.

Height above m. s. l. 163 metres. Sub-soil :—Indo-Gangetic Alluvium.

Instruments : (1) Milne-Shaw Seismograph, (magnetic damping), East-west-component (E) erected in underground room.

(2) Omori-Ewing Horizontal Pendulum Seismograph, North-south-component (N) erected in underground room.

INSTRUMENTAL CONSTANTS.

	Component	Steady mass (Kg.)	T	Vm	E	S (m. m.)	Paper speed m. m./min.	Remarks.
1	E	0·47	12	640	20·1	111	8	From 1-1-34 to 15-2-34.
		,,	,,	250	,,	43·5	,,	From 16-2-1934 to 31-12-1934.
2	N	45	29·5	28	1	...	12	From 1-1-1934 to 15-1-1934.
		,,	18·0	,,	,,	...	,,	From 16-1-1934 to 17-1-1934.
		,,	23·0	,,	,,	...	,,	From 18-1-1934 to 19-3-1934.
		,,	32·5	29	,,	...	,,	From 20-3-1934 to 31-12-1934.

TABLE D1.

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
Jan. 1 .	AE						
	eP	06 26 06	...	...	...	5790	Moderate shock.
	iS	06 33 35	...	...	...	...	
	PS	06 34 11	...	...	...	...	
	SR_2	06 38 22	...	...	...	...	
	eL	06 42 37	...	...	...	...	
	Mn	06 52 09	20	...	7	...	
	F	07 23 15	...	...	...	...	
Jan. 1 .	AE						
	e	22 00 17	...	...	...	...	Slight shock.
	Mn	22 09 53	11	...	2	...	
	F	22 30 25	...	...	...	...	
Jan. 2 .	AE						
	P	20 59 54	...	...	...	1910	Do.
	S	21 03 12	...	...	...	...	
	F	22 38 53	...	...	...	...	
Jan. 2 .	AN						
	e	20 59 50	...	...	...	...	Do.
1934.		H. M. S.					
Jan. 3	eS	21 03 08	...	...	...	...	
	F	21 51 01	...	...	...	...	
Jan. 3	AE						
	iP	09 52 21	...	...	...	6220	Moderate shock.
	PR_2	09 55 30	...	...	...	...	
	S	10 00 16	...	...	...	...	
	PS	10 00 50	...	...	...	...	
	SR_1	10 04 12	...	...	...	...	
	SR_2	10 06 05	...	...	...	...	
	F	11 43 21	...	...	...	...	
Jan. 3	AN						
	P	09 52 21	...	...	...	6220	Do.
	iS	10 00 16	...	...	...	...	
	F	10 49 09	...	...	...	...	
Jan. 10	AE						
	i	18 32 27	...	...	...	...	Feeble shock.
	F	18 40 42	...	...	...	...	

TABLE D 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.	AE	H. M. S.					
Jan. 11	AE						
	eP	10 33 49	...	...	...	8555	Slight shock. Beginning uncertain.
	iS	10 43 41	...	...	...	...	
	PS	10 44 18	...	...	...	...	
	SR.	10 48 47	...	...	...	...	
	F	11 43 41	...	...	...	...	
Jan. 12	AE						
	P	13 36 50	...	...	...	2420	Slight shock.
	S	13 40 51	...	...	...	...	
	eF	14 45 15	...	...	...	...	
Jan. 12	AN						
	eP	13 36 55	...	...	...	2420	Do.
	S	13 40 55	...	...	...	...	
	F	14 13 34	...	...	...	...	
Jan. 14	AE						
	e	08 51 05	...	...	...	...	
Jan. 14	AE						
	i	18 59 04	...	...	...	...	
Jan. 14	AE						
	e	22 34 10	...	...	...	...	Probably foreshock of the Great Bihar Earthquake.
	i	22 34 51	...	...	...	...	
Jan. 15	AE						
	i	08 45 10	...	...	...	...	The Great Bihar Shock.
Jan. 15	AN						
	e	08 45 10	...	...	...	...	Do.
	i	08 46 10	...	...	...	...	
Jan. 15	AE						
	e	14 22 47	...	...	...	...	Apparently aftershock of the Great Bihar Earthquake.
	F	14 29 59	...	...	...	...	
Jan. 15	e	14 54 34	...	...	...	...	Do.
	$\bar{P}$	14 54 58	...	...	...	...	
	iS	14 55 43	...	...	...	...	
	iS	14 56 42	...	...	...	...	
Jan. 15	P	15 03 27	...	...	...	...	Do.
	iS	15 04 57	...	...	...	...	
	$\bar{S}$	15 05 57	...	...	...	...	
Jan. 15	AE						
	S	15 21 17	...	...	...	...	Do.
	$\bar{S}$	15 22 11	...	...	...	...	
	F	15 24 15	...	...	...	...	
Jan. 15	e	15 27 41	...	...	...	...	Do.
	F	15 31 15	...	...	...	...	
Jan. 15	P	15 47 51	...	...	...	...	Do.
	$\bar{S}$	15 49 37	...	...	...	...	
	F	15 54 41	...	...	...	...	
1934.	AE	H. M. S.					
Jan. 15	e	16 14 41	...	...	...	...	Apparently aftershock of the Great Bihar Earthquake.
	F	16 17 15	...	...	...	...	
Jan. 15	e	16 20 17	...	...	...	...	Do.
	F	16 22 15	...	...	...	...	
Jan. 15	e	17 22 17	...	...	...	...	Do.
	F	17 26 57	...	...	...	...	
Jan. 15	p	18 04 21	...	...	...	...	Do.
	$\bar{S}$	18 06 00	...	...	...	...	
Jan. 15	e	19 49 25	...	...	...	...	Do.
	F	19 59 05	...	...	...	...	
Jan. 15	iS	20 27 35	...	...	...	...	Do.
	$\bar{S}$	20 28 25	...	...	...	...	
Jan. 15	$\bar{P}$	20 31 29	...	...	...	...	Do.
	$\bar{iS}$	20 33 13	...	...	...	...	
	F	20 40 05	...	...	...	...	
Jan. 15	$\bar{iP}$	21 08 51	...	...	...	..	Do.
	S	21 09 39	...	...	...	...	
Jan. 15	iS	21 34 49	...	...	...	...	Do.
	S	21 35 44	...	...	...	...	
	F	21 40 34	...	...	...	...	
Jan. 15	i	22 23 15	...	...	...	...	Do
	$\bar{S}$	22 24 39	...	...	...	...	
	F	22 26 28	...	...	...	...	
Jan. 15	e	23 26 15	...	...	...	...	Do.
	F	23 29 11	...	...	...	...	
Jan. 16	AE						
	e	00 27 13	...	...	...	...	Do.
	i	00 27 59	...	...	...	...	
	F	00 29 33	...	...	...	...	
Jan. 16	e	02 00 42	...	...	...	...	Do.
	F	02 03 49	...	...	...	...	
Jan. 16	e	03 00 50	...	...	...	...	Do.
	S	03 02 01	...	...	...	...	
	i	03 02 57	...	...	...	...	
	F	03 06 10	...	...	...	...	
Jan. 16	S	03 19 38	...	...	...	...	Do.
	$\bar{S}$	03 20 29	...	...	...	...	
	F	03 23 01	...	...	...	...	
Jan. 16	i	04 54 55	...	...	...	...	Do.
Jan. 16	AE						
	i	05 00 55	...	...	...	...	Aftershock of slight intensity of the Great Bihar Earthquake.
Jan. 16	AN						
	e	05 01 05	...	...	...	...	Do.

TABLE D 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
Jan. 16	AN						
	P	05 01 35	...	...	...	...	
	iS	05 02 15	...	...	...	...	
	S	05 02 41	...	...	...	...	
	S	05 03 03	...	...	...	...	
	Mn	05 03 23?	...	...	...	...	
	F	05 18 19	...	...	...	...	
Jan. 16	AE						
	P	18 48 29	...	...	...	5400	Slight shock.
	PR_1	18 50 19	...	...	...	...	
	PR_2	18 51 09	...	...	...	...	
	iS	18 55 36	...	...	...	...	
	PS	18 56 15	...	...	...	...	
	L?	19 03 09	...	...	...	...	
	F	19 45 02	...	...	...	...	
Jan. 16	AE						
	e	23 22 48	...	...	...	...	Feeble shock.
	F	23 30 01	...	...	...	...	
Jan. 17	e	06 33 28	...	...	...	...	Apparently after shock of the Great Bihar Earthquake.
	S	06 34 29	...	...	...	...	
	iS	06 35 16	...	...	...	...	
	F	06 37 41	...	...	...	...	
Jan. 17	AE						
	S	07 05 01	...	...	...	...	Do.
	S	07 05 51	...	...	...	...	
	F	07 08 29	...	...	...	...	
Jan. 17	AE						
	F	18 37 19	...	...	...	...	Do.
	S	18 38 04	...	...	...	...	
	S	18 38 55	...	...	...	...	
	F	18 41 26	...	...	...	...	
Jan. 17	AE						
	e	19 30 17	...	...	...	...	Slight shock
	M	19 33 34	...	...	...	...	
	Mn	19 34 44?	6	...	1	...	
	F	19 42 19	...	...	...	...	
Jan. 17	AE						
	e	20 47 19	...	...	...	...	Feeble shock.
	F	20 50 27	...	...	...	...	
Jan. 18	AE						
	e	15 52 49	...	...	...	...	Do.
	F	16 04 42	...	...	...	...	
Jan. 19	AE						
	iP	12 37 19	...	...	...	1865	Slight shock.
	S	12 40 33	...	...	...	...	
	F	13 22 53	...	...	...	...	
Jan. 19	AN						
	eP	12 37 19	...	...	...	1865	Do.
1934.							
Jan. 19	eS	12 40 29	...	...	...	...	
Jan. 19	AE						
	i	18 51 37	...	...	...	...	Aftershock of slight intensity of the Great Bihar Earthquake.
	F	19 23 59	...	...	...	...	
Jan. 19	AN						
	eP	18 51 41	...	...	...	...	Do.
	eP	18 52 26	...	...	...	...	
	iS	18 53 01	...	...	...	...	
	S?	18 53 56	...	...	...	...	
	M	18 54 24?	...	...	...	...	
Jan. 20	AE						
	P	18 02 05	...	...	...	3090	Moderate shock.
	iS	18 06 55	...	...	...	...	
	F	19 25 18	...	...	...	...	
Jan. 20	AN						
	e	18 04 22	...	...	...	...	Do
	F	18 30 51	...	...	...	...	
Jan. 20	AE						
	e	22 49 13	...	...	...	...	Slight shock.
	M	23 16 22	...	...	...	...	
	F	23 46 16	...	...	...	...	
Jan. 21	AE						
	e	06 53 01	...	...	...	780	Beginning uncertain Slight shock.
	P	06 53 40	...	...	...	...	
	S	06 54 22	...	...	...	...	
	S	06 55 11	...	...	...	...	
Jan. 21	AN						
	e	06 53 46	...	...	...	...	Do.
Jan. 21	AE						
	e	07 09 01	...	...	...	...	Do.
Jan. 21	AE						
	e	19 51 30	...	...	...	...	Do.
	F	20 06 13	...	...	...	...	
Jan. 22	AE						
	i	08 13 15	...	...	...	...	Do.
	F	08 33 29	...	...	...	...	
Jan. 23	AE						
	e	05 26 52	...	...	...	...	Feeble shock.
	F	05 31 05	...	...	...	...	
Jan. 25	AE						
	i	12 40 09	...	...	...	...	Slight shock.
	F	12 52 01	...	...	...	...	
Jan. 26	AE						
	e	00 00 53	...	...	...	...	Feeble shock.

TABLE D 1— *contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A N	Amplitude (μ). A E	△ Kms.	Remarks.
		H. M. S.					
1934.							
Jan. 26	AE						
	i	00 01 51	...	...	...	...	
	i	00 02 53	...	...	...	...	
	F	00 08 22	...	...	...	...	
Jan. 28	AE						
	i	06 43 01	...	...	...	...	Feeble shock.
	F	06 51 03	...	...	...	...	
Jan. 28	AE						
	S	15 54 32	...	...	...	...	Do.
	$\bar{S}$	15 55 32	...	...	...	...	
	F	15 58 01	...	...	...	...	
Jan. 28	AE						
	P'	19 28 58	...	...	...	15550	Moderate shock.
	$\overline{ScPcP}$	19 32 19	...	...	...	...	
	$\overline{ScPcS}$	19 36 05	...	...	...	...	
	PPS	19 44 18	...	...	...	...	
	SR_1	19 50 01	...	...	...	...	
	Mn	20 25 04	27	...	42	...	
	F	21 55 27	...	...	...	...	
Jan. 28	AN						
	e	19 32 05	...	...	...	...	
	F	20 58 03	...	...	...	...	
Jan. 29	AE						
	e	00 06 07	...	...	...	...	Feeble shock.
	S	00 06 57	...	...	...	...	
	AE						
Jan. 29	iS	00 07 59	...	...	...	...	
	F	00 10 26	...	...	...	...	
Jan. 29	AE						
	i	12 52 11	...	...	...	...	Slight shock.
	F	13 31 46	...	...	...	...	
Jan. 30	AE						
	e	20 46 23	...	...	...	...	Do.
	F	22 18 03	...	...	...	...	
Feb. 1	AE						
	e	11 53 20	...	...	...	...	Feeble shock.
	i	11 53 32	...	...	...	...	
	F	11 56 12	...	...	...	...	
Feb. 2	AE						
	S	12 20 09	...	...	...	...	Apparently aftershock of Great Bihar Earthquake.
	$\bar{S}$	12 21 01	...	...	...	...	
	F	12 22 36	...	...	...	...	
Feb. 2	AE						
	P	15 15 44	...	...	...	6790	Slight shock.
	S	15 24 10	...	...	...	...	
	PS	15 24 39	...	...	...	...	
	SR_1	15 28 29	...	...	...	...	
	SR_2	15 30 30	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A N	Amplitude (μ). A E	△ Kms.	Remarks.
		H. M. S.					
1934.							
Feb. 2	AE						
	L	15 35 09	...	...	...	...	
	F	16 31 33	...	...	...	...	
Feb. 3	AE						
	P	14 45 08	...	...	...	8345	Slight shock.
	PR_1	14 47 06	...	...	...	...	
	S	14 54 52	...	...	...	...	
	PS	14 55 30	...	...	...	...	
	SR_1	15 00 01	...	...	...	...	
	eL	15 09 51	...	...	...	...	
	M	15 15 43	...	...	...	...	
	Mn	15 18 19	22	...	6	...	
Feb. 4	AN						
	e	12 52 30	...	...	...	...	Apparently aftershock of Great Bihar Earthquake.
	F	13 13 22	...	...	...	...	
Feb. 4	AN						
	P	13 32 22	...	...	...	2590	Moderate shock.
	S	13 36 35	...	...	...	...	
	F	14 39 41	...	...	...	...	
Feb. 7	AE						
	e	16 14 17	...	...	...	...	Slight shock.
	S	16 18 30	...	...	...	...	
	Mn	16 25 29	10	...	1	...	
	F	16 38 43	...	...	...	...	
Feb. 8	AE						
	e	14 41 52	...	...	...	...	Apparently aftershock of the Great Bihar Earthquake.
	$\bar{P}$	14 42 17	...	...	...	...	
	S	14 43 07	...	...	...	...	
	$\bar{S}$	14 44 02	...	...	...	...	
	F	14 51 42	...	...	...	...	
Feb. 9	AE						
	e	06 23 34	...	...	..	...	Slight shock.
Feb. 9	AE						
	eP	09 40 45	...	...	...	8320	Do.
	PR_1	09 43 30	...	...	...	...	
	PR_2	09 45 00	...	...	...	...	
	S	09 50 26	...	...	...	...	
	PS	09 51 05	...	...	...	...	
	SR_1	09 55 29	...	...	...	...	
	eL	10 04 55	...	...	...	...	
	F	11 15 34	...	...	...	...	
Feb. 9	AE						
	e	11 39 55	...	...	...	...	Do.
	F	12 57 29	...	...	...	...	
Feb. 9	AE						
	e	22 48 53	...	...	...	...	Slight shock.
	F	23 19 28	...	...	...	...	

TABLE D 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A	△ Kms.	Remarks.
1934.		H. M. S.					
Feb. 10	AE						
	P	04 47 02	...	...	...	...	Aftershock of the Great Bihar Earthquake.
	S	04 48 31	...	...	...	...	
	$\bar{S}$	04 49 23	...	...	...	...	
	F	05 06 46	...	...	...	...	
Feb. 10	AE						
	e	22 18 59	...	...	...	...	Slight shock.
	Mn	22 37 04	14	...	2	...	
Feb. 10	AE						
	e	22 57 41	...	...	...	...	Apparently aftershock of the Great Bihar Earthquake.
	S	22 58 23	...	...	...	...	
	$\bar{S}$	22 59 09	...	...	...	...	
	F	23 22 05	...	...	...	...	
Feb. 11	AE						
	e	04 29 46	...	...	...	...	Near slight shock.
	i	04 30 07	...	...	...	...	
	F	04 31 44	...	...	...	...	
Feb. 11	AE						
	P	09 11 36	...	...	...	8935	Slight shock.
	S	09 21 48	...	...	...	...	
	SR_1	09 27 07	...	...	...	...	
	SR_2	09 30 30	...	...	...	...	
	eL	09 37 56	...	...	...	...	
Feb. 11	AN						
	e	09 12 06	...	...	...	...	Do.
Feb. 11	AE						
	$e\bar{P}$	14 55 10	...	...	...	...	Do.
	iS	14 55 47	...	...	...	...	
	i ($\bar{S}$)	14 56 30	...	...	...	...	
	F	15 04 59	...	...	...	...	
Feb. 11	AN						
	e	14 56 26	...	...	...	...	Do.
	F	15 01 04	...	...	...	...	
Feb. 12	AE						
	e	03 58 12	...	...	...	...	Do.
	S	03 58 30	...	...	...	...	
	i$\bar{S}$	03 59 27	...	...	...	...	
	F	04 12 33	...	...	...	...	
Feb. 12	AN						
	e	03 59 28	...	...	...	...	Do.
	F	04 07 08	...	...	...	...	
Feb. 12	AE						
	iP	11 35 50	...	...	...	2565	Do.
	S	11 40 01?	...	...	...	...	
	F	13 16 17	...	...	...	...	
Feb. 12	AN						
	eP	11 35 54	...	...	...	2565	Do.
	S	11 40 05	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
		H. M. S.					
1934.							
Feb. 13	AE						
	e	10 02 30	...	...	...	...	Feeble shock.
	F	10 45 41	...	...	...	...	
Feb. 13	AE						
	i	20 36 14	...	...	...	...	Do.
	c	20 40 40	...	...	...	...	
	F	21 31 33	...	...	...	...	
Feb. 14	AE						
	iP	01 20 36	...	...	...	5810	Slight shock.
	PR_1	01 33 25	...	...	...	...	
	S	01 38 08	...	...	...	...	
	SR_1	01 41 42	...	...	...	...	
	SR_2	01 43 15	...	...	...	...	
	eL	01 46 52	...	...	...	...	
Feb. 14	AE						
	iP	04 07 10	...	...	...	...	Shock of great intensity.
	F	09 24 27	...	...	...	...	
Feb. 14	AN						
	eP	04 07 07	...	...	...	4265	Do.
	S	04 13 11	...	...	...	...	
	SR_2	04 15 02	...	...	...	...	
	L	04 18 41	...	...	...	...	
	Mn	?	11	> 1277	...	...	Motion of recording pen restricted due to side-stops on both sides for about three minutes.
Feb. 14	AE						
	e	11 15 34	...	...	...	...	Feeble shock.
	F	12 01 03	...	...	...	...	
Feb. 14	AE						
	P	17 22 13	...	...	...	4110	Slight shock.
	PR_2	17 23 51	...	...	...	...	
	S	17 28 06	...	...	...	...	
	SR_2	17 31 01	...	...	...	...	
	L ?	17 38 11	...	...	...	...	
	Mn	17 41 05	13	...	10	...	
	F	18 45 17	...	...	...	...	
Feb. 14	AE						
	e	19 15 16	...	...	...	...	Feeble shock.
	F	20 31 26	...	...	...	...	
Feb. 14	AE						
	e	23 30 01	...	...	...	...	Slight shock.
	F	23 53 20	...	...	...	...	
Feb. 15	AE						
	e	03 31 46	...	...	...	...	Do.
	F	04 09 36	...	...	...	...	
Feb. 17	AE						
	$e\bar{P}$	02 53 14	...	...	...	...	Apparently aftershock of the Great Bihar Earthquake.

TABLE D1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
Feb. 17	AE						
	S	02 53 59	...	...	...	...	
	S*	02 54 27	...	...	...	...	
	$\bar{S}$	02 54 52	...	...	...	...	
	F	03 02 39	...	...	...	...	
Feb. 17	AN						
	e	02 54 07	...	...	...	...	Apparently after-shock of the Great Bihar Earthquake.
		02 54 52	...	...	...	...	
	F	02 58 37	...	...	...	...	
Feb. 17	AE						
	e	21 11 57	...	...	...	...	Feeble shock.
	F	22 02 57	...	...	...	...	
Feb. 18	AE						
	e	13 03 51	...	...	...	...	Slight shock.
	S?	13 04 27	...	...	...	...	
	$\bar{S}$?	13 05 27	...	...	...	...	
	F	13 13 23	...	...	...	...	
Feb.18	AN						
	e	13 04 00	...	...	...	...	Do.
	$\bar{S}$	13 05 27	...	...	...	...	
	F	13 09 03	...	...	...	...	
Feb. 19	AE						
	P	10 31 51	...	...	...	3945	Do.
	PR_2	10 33 23	...	...	...	...	
	S	10 37 35	...	...	...	...	
	SR_2	10 40 03	...	...	...	...	
	Mn	10 51 29	14	...	11	...	
	F	12 33 30	...	...	...	...	
Feb. 20	AE						
	e	04 33 25	...	...	...	...	
	F	05 27 56	...	...	...	...	
Feb. 20	AE						
	e	20 11 34	...	...	...	...	Very feeble shock.
Feb. 20	F	20 33 52	...	...	...	...	
Feb. 21	AE						
	e	11 45 34	...	...	...	...	Do.
	F	12 26 35	...	...	...	...	
Feb. 22	AE						
	e	08 12 13?	...	...	...	...	Slight shock.
	S	08 18 19?	...	...	...	...	
	SR_1	08 20 58?	...	...	...	...	
	SR_2	08 21 44?	...	...	...	...	
	L	08 24 05?	...	...	...	...	
Feb. 26	AE						
	e	14 51 21	...	...	...	...	
	F	15 35 43	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
Feb. 27	AE						
	e	21 41 33	...	...	...	...	Slight shock.
	i	21 51 19	...	...	...	...	
	F	22 28 35	...	...	...	...	
Feb. 28	AE						
	eP	14 33 20	...	...	...	9280	Moderate shock.
	PR_1	14 36 30	...	...	...	...	
	PR_2	14 38 15	...	...	...	...	
	iS	14 43 43	...	...	...	...	
	PS	14 44 22	...	...	...	...	
	SR_1	14 49 00	...	...	...	...	
	SR_2	14 52 27	...	...	...	...	
	L	15 00 15	...	...	...	...	
	M	15 06 48	...	...	...	...	
	Mn	15 15 12	11	...	27	...	
	F	18 13 03	...	...	...	...	
Feb. 28	AE						
	e	22 28 05	...	...	...	...	Slight shock.
	F	23 18 16	...	...	...	...	
Mar. 3	AE						
	e	16 15 45	...	...	...	...	Do.
	F	16 52 07	...	...	...	...	
Mar. 4	AE						
	e	06 12 19	...	...	...	...	Do.
	i	06 18 47	...	...	...	...	
	F	07 37 27	...	...	...	...	
Mar. 4	AE						
	i	11 36 55	...	...	...	...	Do.
	Mn	11 55 14	20	...	16	...	
	F	12 43 47	...	...	...	...	
Mar. 5	AE						
	e?	12 00 41	...	...	...	12235	Shock of great intensity.
	PR_2	12 07 27	...	...	...	...	
	ScPcs	12 11 01	...	...	...	...	
	ScPcPcs	12 11 57	...	...	...	...	
	S	12 12 41	...	...	...	...	
	PS	12 14 17	...	...	...	...	
	iPPS	12 15 17	...	...	...	...	
	SR_1	12 20 33	...	...	...	...	
	L	12 38 15	...	...	...	...	
	Mn	12 52 37?	...	...	...	...	
	F	16 35 30	...	...	...	...	
Mar. 5	AN						
	e	12 11 14	...	...	...	...	Do.
	Mn	12 51 23	22	865	...	...	
Mar. 6	AE						
	i	15 02 33	...	...	...	...	Slight shock.
	F	15 56 17	...	...	...	...	

TABLE D 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
Mar. 7	AE						
	e	23 25 44	...	...	...	...	Slight shock.
Mar. 8	F	00 46 08	...	...	...	...	
Mar. 9	AE						
	i	14 21 07	...	...	...	...	Do.
	F	15 14 27	...	...	...	...	
Mar. 11	AE						
	e	19 14 07	...	...	...	...	Do.
	iS?	19 17 42	...	...	...	...	
	F	19 44 11	...	...	...	...	
Mar. 12	AE						
	i	15 32 27	...	...	...	...	Distant moderate shock.
	M	16 06 05	...	...	...	...	
	Mn	16 08 15	25	...	34	...	
	F	17 26 47	...	...	...	...	
Mar. 12	AE						
	e	19 19 35	...	...	...	...	Aftershock of slight intensity.
	F	19 47 47	...	...	...	...	
Mar. 13	AE						
	eP	13 25 03	...	...	...	...	Distant moderate shock.
	PR_1	13 28 45	...	...	...	...	
	PR_2	13 31 07	...	...	...	...	
	eScPcS	13 35 21	...	...	...	...	
	ScPcPcS	13 35 57	...	...	...	...	
	S	13 36 19	...	...	...	...	
	PS	13 37 17	...	...	...	...	
	PPS	13 37 55	...	...	...	...	
	SR_2	13 46 35	...	...	...	...	
	F	16 32 07	...	...	...	...	
Mar. 15	AE						
	e	11 15 45	...	...	...	...	Slight shock.
	F	12 16 25	...	...	...	...	
Mar. 16	AE						
	i	14 25 02	...	...	...	...	Do.
	F	15 12 19	...	...	...	...	
Mar. 24	AE						
	eP	12 17 17	...	...	...	10555	Distant moderate shock.
	PR_1	12 21 07	...	...	...	...	
	ePR_2	12 23 11	...	...	...	...	
	iScPcS	12 27 41	...	...	...	...	
	ScPcPcS	12 28 11	...	...	...	...	
	S	12 28 31	...	...	...	...	
	PS	12 29 35	...	...	...	...	
	ePPS	12 30 21	...	...	...	...	
	SR_1	12 34 51	...	...	...	...	
	SR_2	12 38 49	...	...	...	...	
	eL	12 49 12	...	...	...	...	
	Mn	12 58 25	21	...	18	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
Mar. 24	AE						
	F	16 23 37	...	...	...	...	
Mar. 25	AE						
	e	12 45 15	...	...	...	...	Slight shock.
	i	12 46 46	...	...	...	...	
	F	13 01 43	...	...	...	...	
Mar. 27	AE						
	e	10 56 07	...	...	...	...	Tremors.
	F	11 01 03	...	...	...	...	
Apr. 2	AE						
	e	05 06 58	...	...	...	...	Slight shock.
	F	05 48 46	...	...	...	...	
Apr. 3	AE						
	e	08 49 38	...	...	...	...	Do.
	F	09 42 06	...	...	...	...	
Apr. 3	AE						
	e	11 34 16	...	...	...	...	Feeble shock.
	F	11 47 18	...	...	...	...	
Apr. 3	AE						
	P	22 41 34	...	...	...	6000	Slight shock.
Apr. 3	AE						
	S	22 49 14	...	...	...	...	
	PS	22 49 46	...	...	...	...	
	SR_1	22 52 43	...	...	...	...	
	SR_2	22 54 22	...	...	...	...	
	F	23 25 41	...	...	...	...	
Apr. 3	AE						
	e	23 00 26	...	...	...	...	Feeble shock.
	F	23 05 48	...	...	...	...	
Apr. 4	AE						
	e	21 00 29	...	...	...	...	Do.
	F	21 06 52	...	...	...	...	
Apr. 5	AE						
	e	10 42 00	...	...	...	...	Slight shock.
	i	10 44 36	...	...	...	...	
	F	11 06 07	...	...	...	...	
Apr. 5	AE						
	e	11 20 44	...	...	...	...	Feeble shock.
	F	11 29 20	...	...	...	...	
Apr. 6	AE						
	e	19 18 50	...	...	...	5780	Slight shock.
	iS	19 26 18	...	...	...	...	
	PS	19 26 49	...	...	...	...	
	SR_1 ?	19 29 52?	...	...	...	...	
	Mn	19 43 47	15	...	6	...	
	F	20 17 56	...	...	...	...	

TABLE D 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.	AN	H. M. S.					
Apr. 8	AE						
	e	20 54 14	...	...	...	...	Slight shock. Apparently an aftershock of the Great Bihar Earthquake.
	e	20 55 07	...	...	...	...	
	i	20 55 55	...	...	...	...	
	F	21 03 04	...	...	...	...	
Apr. 8	AN						
	e	20 55 35	...	...	...	...	Do.
Apr. 8	F	20 57 36	...	...	...	...	
Apr. 9	AE						
	e	15 56 25	...	...	...	...	Distant slight shock.
	F	17 48 23	...	...	...	...	
Apr. 9	AE						
	iP	10 31 52	...	...	...	5420	Moderate shock.
	PR_1	10 33 45	...	...	...	...	
	PR_2	10 34 29	...	...	...	...	
	S	10 39 01	...	...	...	...	
	PS	10 39 39	...	...	...	...	
	SR	10 42 34	...	...	...	...	
	eL	10 47 23	...	...	...	...	
	Mn	10 55 27	17	...	30	...	
	F	12 13 38	...	...	...	...	
Apr. 9	AN						
	e	10 31 37	...	...	...	...	Do.
	Mn	10 55 05	17	26	...	...	
	F	12 06 08	...	...	...	...	
Apr. 11	AE						
	e	10 11 35	...	...	...	...	Feeble shock.
	F	10 22 46	...	...	...	...	
Apr. 11	AE						
	E	21 25 56	...	...	...	10780	Slight shock.
	PR_1	21 29 33	...	...	...	...	
	PR_2	21 31 29	...	...	...	...	
	ScPcS	21 35 42	...	...	...	...	
	PPS	21 38 23	...	...	...	...	
	SR_1	21 43 26	...	...	...	...	
	SR_2	21 47 16	...	...	...	...	
	F	22 49 20	...	...	...	..	
Apr. 11	AN						
	e	21 35 51	...	...	...	...	Do.
	F	22 38 03	...	...	...	...	
Apr. 12	AE						
	e	03 28 02	...	...	...	...	Do.
	e	03 34 01	...	...	...	...	
	F	04 11 47	...	...	...	...	
Apr. 12	AN						
	e	03 35 30?	...	...	...	...	Do.
	F	04 07 57?	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
Apr. 12	AE						
	P	09 14 35	...	...	...	2045	Moderate shock.
	PR_1	09 14 56	...	...	...	...	
	S	09 18 04	...	...	...	...	
	SR_1	09 18 45	...	...	...	...	
	Mn	09 23 19	12	...	15	...	
	F	10 10 35	...	...	...	...	
Apr. 12	AN						
	e	09 17 53	...	...	...	...	Do.
	F	09 52 48	...	...	...	...	
Apr. 13	AE						
	e	19 53 28	...	...	...	...	Tremors.
	F	20 10 07	...	...	...	...	
Apr. 13	AE						
	$\overline{P}$	23 05 55	...	...	...	...	Slight shock. Apparently an aftershock of the Great Bihar Earthquake.
	S	23 06 42	...	...	...	...	
	$\overline{S}$	23 07 34	...	...	...	...	
	F	23 13 56	...	...	...	...	
Apr. 14	AE						
	i	01 31 55	...	...	...	...	Slight shock, nea-
	F	01 50 44	...	...	...	...	
Apr. 14	AN						
	e	01 32 07	...	...	...	...	Do.
	F	01 39 29	...	...	...	...	
Apr. 15	AE						
	e	10 42 31	...	...	...	...	Slight shock.
	F	11 29 15	...	...	...	...	
Apr. 15	AE						
	P	22 24 12	...	...	...	5445	Shock of great intensity
	PR_1	22 26 07	...	...	...	...	
	PR_2	22 27 02	...	...	...	...	
	S	22 31 21	...	...	...	...	
	SR_1	22 34 49	...	...	...	...	
	SR_2	22 36 12	...	...	...	...	
	L	22 39 00	...	...	...	...	
	M	22 43 39	...	...	...	...	
Apr. 16	F	02 23 07	...	...	...	...	
Apr. 15	AN						
	e	22 24 27	...	...	...	...	D
	i	22 31 39	...	...	...	...	
	Mn	22 46 10	25	292	...	...	
Apr. 16	AE						
	e	04 08 27	...	...	...	5280	Slight shock.
	PR_1	04 10 07	...	...	...	...	
	PR_2	04 10 53	...	...	...	...	
	S	04 15 21	...	...	...	...	
	SR_1	04 18 42	...	...	...	...	
	SR_2	04 19 55	...	...	...	...	

TABLE D 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
Apr. 16	AE						
	e	12 49 30	...	...	...	...	Slight shock.
	F	14 35 46	...	...	...	...	
Apr. 19	AE						
	e	16 22 05	...	...	...	...	Do.
Apr. 19	AE						
	i	16 29 01	...	...	...	...	
	F	17 00 44	...	...	...	...	
Apr. 19	AE						
Apr. 19	eP	23 30 07	...	...	...	...	Do.
	S (?)	23 33 29	...	...	...	...	
	L (?)	23 34 53	...	...	...	...	
	M (?)	23 36 33	...	...	...	...	
	F	Masked by the following shock.					
Apr. 19	AE						
	e	23 45 17	...	...	...	...	Do.
	S ?	23 46 57	...	...	...	...	
	F	23 55 23	...	...	...	...	
Apr. 19	AN						
	e	23 33 31	...	...	...	...	Do.
	F	Masked by the following shock.					
Apr. 19	AN						
	e	23 46 19	...	...	...	...	Do.
	eS ?	23 46 55	...	...	...	...	
	F	23 49 43	...	...	...	...	
Apr. 24	AE						
	e	18 55 33	...	...	...	...	Do.
	F	20 04 19	...	...	...	...	
Apr. 25	AE						
	e	05 20 11	...	...	...	...	Feeble shock.
	F	05 30 12	...	...	...	...	
Apr. 26	AE						
	e	05 55 25	...	...	...	...	Slight shock.
Apr. 26	AE						
	e	08 21 33	...	...	...	...	Do.
	F	09 50 02	...	...	...	...	
Apr. 26	AE						
	eP	13 48 35	...	...	...	5220	Do.
	ePR_1	13 50 23	...	...	...	...	
	PR_2	13 51 09	...	...	...	...	
	iS	13 55 35	...	...	...	...	
	SR_1	13 58 47	...	...	...	...	
	L	14 02 49	...	...	...	...	
	F	14 56 00	...	...	...	...	
Apr. 26	AE						
	e	21 17 29	...	...	...	...	Do.
	i	21 24 21	...	...	...	...	
	F	23 44 56	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
Apr. 27	AE						
	e	09 34 01	...	...	...	...	Slight shock.
Apr. 27	AE						
	e	21 05 08	...	...	...	...	Distant moderate shock.
	i	21 11 41	...	...	...	...	
Apr. 28	AE						
	e	15 19 57	...	...	...	...	Slight shock.
	i	15 30 41	...	...	...	...	
	F	16 30 44	...	...	...	...	
Apr. 28	AE						
	e	18 22 25	...	...	...	...	Do.
	F	19 02 09	...	...	...	...	
Apr. 30	AE						
	e	12 30 11	...	...	...	...	Slight shock, not distant.
	F	12 39 29	...	...	...	...	
May 1	AE						
	P	03 42 55	...	...	...	890	Slight shock.
	$\overline{P}$	03 43 49	...	...	...	...	
	S	03 44 30	...	...	...	...	
	F	04 57 10	...	...	...	...	
May 1	AN						
	e	03 43 19	...	...	...	893	Do.
	eS	03 44 30	...	...	...	...	
	S*	03 45 00	...	...	...	...	
	$\overline{S}$	03 45 34	...	...	...	...	
	F	04 22 22	...	...	...	...	
May 1	AE						
	P	07 10 50	...	...	...	2445	Do.
	eS	07 14 51	...	...	...	...	
	SR_1	07 15 39	...	...	...	...	
	L	07 16 48	...	...	...	...	
	F	09 04 44	...	...	...	...	
	AN						
	e	07 11 27	...	...	...	...	Do.
	F	07 58 21	...	...	...	...	
May 3	AE						
	P	01 40 45		...	...	6110	Do.
	S	01 48 30	...	...	...	...	
	Mn	02 09 05	19	...	8	...	
	F	03 20 31	...	...	...	...	
May 4	AE						
	P	04 48 40	...	...	...	919	Shock of great intensity.
	PR_2	04 53 45	...	...	...	...	
	iS	04 58 59	...	...	...	...	
	PS	04 59 51	...	...	...	...	
May 4	AE						
	iSR_1	05 04 37	...	...	...	...	

TABLE D 1--*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
May 4	AE						
	SR_1	95 08 23	...	...	...	...	
	eL	05 16 10	...	...	...	...	
	Mn	05 26 01	27	...	172	...	
	F	08 53 33	...	...	...	...	
May 4	AN						
	P	04 48 40	...	...	...	9190	Shock of great intensity.
	S	04 58 59	...	...	...	...	
	Mn	05 29 25	24	182	...	...	
May 4	AE						
	e	02 28 59	...	...	...	...	Slight shock.
	F	02 53 00	...	...	...	...	
May 4	AE						
	e	14 51 57	...	...	...	...	Do.
	F	16 18 09	...	...	...	...	
May 4	AE						
	i	16 59 58	...	...	...	...	Feeble shock.
	F	17 27 09	...	...	...	...	
May 6	AE						
	e	06 42 29	...	...	...	...	
	F	06 53 45	...	...	...	...	
May 6	AE						
	e	09 44 59	...	...	...	...	
	F	09 55 09	...	...	...	...	
May 7	AE						
	e	02 05 42	...	...	...	...	Do.
	F	02 58 03	...	...	...	...	
May 7	AE						
	e	04 15 29	...	...	...	...	Slight shock.
	F	05 19 41	...	...	...	...	
May 9	AE						
	e	16 23 55	...	...	...	...	Do.
May 9	AE						
	Mn	16 52 51	15	...	5	...	
	F	17 43 43	...	...	...	...	
May 9	AE						
	e	19 00 55	...	...	...	...	
	F	19 26 55	...	...	...	...	
May 11	AE						
	e	18 33 37	...	...	...	..	Do.
	F	19 13 20	...	...	...	...	
May 12	AE						
	i	10 52 00	...	...	...	...	Feeble shock.
	F	11 41 10	...	...	...	...	
May 12	AE						
	e	20 37 18	...	...	...	...	Slight shock.

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
May 12	AE						
	F	21 31 08	...	...	...	...	
May 13	AE						
	iP	09 14 09	...	...	...	8610	Moderate shock.
	PR_1	09 17 07	...	...	...	...	
	PR_2	09 18 49	...	...	...	...	
	iS	09 24 03	...	...	...	...	
	PS	09 24 41	...	...	...	...	
	SR_1	09 29 13	...	...	...	...	
	SR_2	09 32 21	...	...	...	...	
	L	09 39 23	...	...	...	...	
	M	09 45 37	...	...	...	...	
	F	11 51 02	...	...	...	...	
May 13	AE						
	e	17 12 12	...	...	...	...	Slight shock.
	F	17 55 03	...	...	...	...	
May 22	AE						
	P	01 27 17	...	...	...	2745	Do.
	PR_1	01 27 47	...	...	...	...	
	iS	01 31 42	...	...	...	...	
	SR_1	01 32 47	...	...	...	...	
May 22	AE						
	L	01 34 19	...	...	...	...	
	Mn	01 43 07	15	...	14	...	
May 22	AN						
	e	01 27 34	...	...	...	...	Do.
	F	02 40 32	...	...	...	...	
May 22	AE						
	e	11 29 21	...	...	...	...	Do.
	F	12 28 51	...	...	...	...	
May 27	AE						
	e	13 39 45	...	...	...	...	Do.
	Mn	13 46 57	13	...	8	...	
	F	14 42 56	...	...	...	...	
May 30	AE						
	e	23 12 53	...	...	...	...	Do.
	F	23 47 25	...	...	...	...	
June 1	AE						
	$\overline{P}$	19 26 45	...	...	...	890	Do.
	S	19 27 31	...	...	...	...	
	S*	19 27 55	...	...	...	...	
	$\overline{S}$	19 28 23	...	...	...	...	
	F	19 35 32	...	...	...	...	
June 2	AE						
	P	05 58 04	...	...	...	1520	Moderate shock.
	S	06 00 46	...	...	...	...	
	F	06 44 35	...	...	...	...	

TABLE D 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
June 2	AN						
	e	05 58 06	...	...	...	...	Moderate shock.
	S	06 00 46	...	...	...	...	
June 2	AE						
	e	14 02 21	...	...	...	...	Slight shock.
	F	15 19 38	...	...	...	...	
June 3	AE						
	i	16 39 19	...	...	...	...	Very feeble shock.
	F	16 55 37	...	...	...	...	
June 3	AE						
	e	21 12 34	...	...	...	...	Feeble shock.
	S	21 21 44	...	...	...	...	
	F	22 16 35	...	...	...	...	
June 4	AE						
	iP	05 58 28	...	...	...	...	Slight shock.
	eS	06 00 29	...	...	...	...	
	F	06 18 17	...	...	...	...	
June 4	AN						
	e	05 58 17	...	...	...	...	Do.
	S	06 00 29	...	...	...	...	
June 5	AE						
	i	11 31 29	...	...	...	...	Do.
	iS	11 32 36	...	...	...	...	
	F	11 44 46	...	...	...	...	
June 5	AE						
	e	13 10 47	...	...	...	...	Do.
	F	13 36 54	...	...	...	...	
June 6	AE						
	e	04 25 34	...	...	...	...	Do.
	F	05 34 45	...	...	...	...	
June 6	AE						
	e	06 41 33	...	...	...	...	Do.
	F	07 37 37	...	...	...	...	
June 9	AE						
	P	13 10 09	...	...	...	7955	Do.
	PcP	13 10 47	...	...	...	...	
	PR_1	13 12 49	...	...	...	...	
	S	13 19 34	...	...	...	...	
June 9	PS	13 20 10	...	...	...	...	
	F	14 33 30	...	...	...	...	
June 10	AE						
	P	08 09 47	...	...	...	...	Feeble shock.
	F	08 17 21	...	...	...	...	
June 13	AE						
	P	02 00 32	...	...	...	6255	Moderate shock.
1934.		H. M. S.					
June 13	AE						
	PR_1	02 02 46	...	...	...	...	
	PR_2	02 03 44	...	...	...	...	
	iS	02 08 27	...	...	...	...	
	PS	02 09 05	...	...	...	...	
	SR_1	02 13 57	...	...	...	...	
	L?	02 17 52	...	...	...	...	
	M_B	02 27 20	18	...	S	...	
	F	03 29 40	...	...	...	...	
June 13	AN						
	e	02 00 32	...	...	...	...	Moderate shock.
June 13	AE						
	iP	22 13 33	...	...	...	1310	Do.
	S	22 15 54	...	...	...	...	
June 13	AN						
	P	22 13 33	...	...	...	Do.	Do.
	S	22 15 54	...	...	...	...	Do.
	SR	22 16 09	...	...	...	...	
	L	22 16 33	...	...	...	...	
June 16	AE						
	e	20 17 27	...	...	...	...	Slight shock.
	i)	20 18 53	...	...	...	...	
	F	20 28 42	...	...	...	...	
June 18	AE						
	i]	09 36 27	...	...	...	...	Feeble shock.
	F	10 46 12	...	...	...	...	
June 18	AE						
	e	11 54 13	...	...	...	...	Do.
	i]	11 55 06	...	...	...	...	
	F	12 02 06	...	...	...	...	
June 23	AE						
	P	05 23 11	...	...	...	1510	Moderate shock.
	S	05 25 52	...	...	...	...	
	SR_1	05 26 10	...	...	...	...	
June 23	AN						
	eP	05 23 11	...	...	...	...	
	SR_1	05 26 05	...	...	...	...	
June 24	AE						
	PR_1	06 22 46	...	...	...	16110	Distant moderate shock.
	$\overline{ScPcP}$	06 23 14	...	...	...	...	
	PR_2	06 26 09	...	...	...	...	
	$\overline{ScPcS}$	06 26 47	...	...	...	...	
	$\overline{ScPcPcS}$	06 29 23	...	...	...	...	
	$\overline{PScPcS}$	06 33 02	...	...	...	...	
	PPS	06 35 40	...	...	...	...	
	SR_1	06 41 40	...	...	...	...	
	SR_2	06 47 07	...	...	...	...	

TABLE D 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A N	Amplitude (μ) A E	△ Kms.	Remarks.
1934.		H. M. S.					
June 24	AE						
	eL	07 08 34	...	...	...	...	
June 24	AN						
	e	06 19 04	...	...	...	...	
	eF	08 05 20	...	...	...	...	
June 29	AE						
	P	08 33 49	...	...	...	5000	Moderate shock.
	PR_1	08 35 27	...	...	...	...	
	PR_2	08 36 11	...	...	...	...	
	S	08 40 33	...	...	...	...	
June 29	AE						
	SR_1	08 43 18	...	...	...	...	
	SR_2	08 44 18	...	...	...	...	
	eL	08 47 10	...	...	...	...	
	F	09 49 18	...	...	...	...	
June 29	AN						
	P	08 33 49	...	...	...	5000	Do.
	S	08 40 33	...	...	...	...	
	eL	08 47 00	...	...	...	...	
	F	09 41 19	...	...	...	...	
June 29	AE						
	e	12 48 56	...	...	...	...	Feeble shock.
	F	13 08 48	...	...	...	...	
July 3	AE						
	i	08 55 10	...	...	...	...	Slight near shock.
	i	08 55 37	...	...	...	...	
July 3	AN						
	e	08 55 11	...	...	...	...	Do.
	F	09 16 44	...	...	...	...	
July 5	AE						
	e	07 34 01	...	...	...	...	Do.
	F	07 37 16	...	...	...	...	
July 6	AE						
	e	23 17 04	...	...	...	...	Distant slight shock.
July 12	AE						
	i	14 41 08	...	...	...	...	Tremors.
	F	15 08 55	...	...	...	...	
July 15	AE						
	e	02 11 49?	...	...	...	...	Slight shock.
	F	02 18 23?	...	...	...	...	
July 18	AE						
	P^1_1	01 56 00	...	...	...	17000	Shock of great intensity.
July 18	AE						
	ScPcP?	01 59 22	...	...	...	...	
	PR_1	01 59 38	...	...	...	...	
	ScPcS	02 02 48	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A N	Amplitude (μ). A E	△ Kms.	Remarks.
1934.		H. M. S.					
July 18	AE						
	PR_2	02 03 8	...	...	...	...	
	ScPc PcS	02 06 14	...	...	...	...	
	PScPcS	02 10 01	...	...	...	...	
	PPS	02 12 55	...	...	...	...	
	SR_1	02 19 07	...	...	...	...	
	SR_2	02 24 54	...	...	...	...	
	eL	02 48 23	...	...	...	...	
	F	06 02 25	...	...	...	...	
July 18	AN						
	eP'_1	01 55 55	...	...	...	17000	Shock of great intensity.
	PR_1	01 59 38	...	...	...	..	
	eL	02 48 23	...	...	...	...	
	F	06 02 28	...	...	...	...	
July 18	AE						
	e	16 37 12	...	...	...	...	Feeble shock.
	F	17 07 14	...	...	...	...	
July 18	AE						
	P	17 19 12	...	...	...	...	Moderate shock.
	PR_1	17 22 51	...	...	...	...	
	PR_2	17 24 51	...	...	...	...	
	ScPcS	17 29 25	...	...	...	...	
	S?	17 30 23	...	...	...	...	
	PS?	17 31 36	...	...	...	...	
	SR_1	17 36 58	...	...	...	...	
	SR_2	17 40 37	...	...	...	...	
	L	17 50 09	...	...	...	...	
	F	19 35 18	...	...	...	...	
July 18	AN						
	e	17 19 18	...	...	...	...	
July 18	F	19 12 34	...	...	...	...	
July 18	AE						
	P	19 53 50	...	...	...	16720	Shock of great intensity.
	PR_1	19 57 18	...	...	...	...	
	ScPcS	20 04 20	...	...	...	...	
	PS	20 05 48	...	...	...	...	
	SR_1	20 10 46	...	...	...	...	
	SR_2	20 15 11	...	...	...	...	
	L	20 30 02	...	...	...	...	
July 19	F	00 04 01	...	...	...	...	
July 18	AN						
	eP	19 53 54	...	...	...	...	Do.
July 19	AE						
	P	01 37 34	...	...	...	6290	Moderate shock.
	PR_1	01 39 47	...	...	...	...	
	PR_2	01 40 49	...	...	...	...	

TABLE D 1—*contd.*

Date	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	$\triangle$ Kms.	Remarks.
1934.		H. M. S.					
July 19	AE						
	S	01 45 31	...	...	...	...	
	PS	01 46 08	...	...	...	...	
	SR_1	01 49 35	...	...	...	...	
	SR_2	01 51 24	...	...	...	...	
	eL	01 55 28	...	...	...	...	
	F	03 39 14	...	...	...	...	
July 19	AN						
	eP	01 37 34	...	...	...	...	
July 19	AE						
	e	06 02 13	...	...	...	...	Feeble shock.
	i	06 09 10	...	...	...	...	
July 19	AN						
	e	06 10 06	...	...	...	...	
July 19	AE						
	P	07 50 15	...	...	...	11090	Slight shock.
	eP (?)	07 53 35	...	...	...	...	
	ePR_1	07 54 09	...	...	...	...	
	PR_2	07 56 23	...	...	...	...	
	ScPcS	08 00 43	...	...	...	...	
	PS	08 02 29	...	...	...	...	
	SR_1	08 07 55	...	...	...	...	
	SR_2	08 12 11	...	...	...	...	
	F	10 21 49	...	...	...	...	
July 19	AN						
	e	07 53 30	...	...	...	...	
	F	09 12 14	...	...	...	...	
July 20	AE						
	e	02 55 35	...	...	...	...	
	F	03 19 11	...	...	...	...	
July 20	AE						
	i	18 34 15	...	...	...	...	
	F	20 23 52	...	...	...	...	
July 21	AN						
	P	06 31 56	...	...	...	...	Moderate shock.
	I	09 45 45	...	...	...	...	
July 21	AE						
	eP	11 01 25	...	...	...	...	Slight shock.
	F	13 10 42	...	...	...	...	
July 21	AN						
	e	11 01 30	...	...	...	...	Do.
	F	13 02 28	...	...	...	...	
July 22	AE						
	iP	19 59 29	...	...	...	1055	Moderate shock.
	S	20 01 22	...	...	...	...	
	F	20 46 40	...	...	...	...	
1934.		H. M. S.					
July 28	AE						
	P	02 09 32	...	...	...	1280	Slight shock.
	S	02 11 50	...	...	...	...	
July 28	SR_1	02 12 10	...	...	...	...	
	Mn	02 15 32	10	...	22	...	
	F	02 43 02	...	...	...	...	
July 28	AN						
	P	02 09 32	...	...	...	1280	Slight shock.
	S	02 11 50	...	...	...	...	
July 30	AE						
	e	03 34 51	...	...	...	...	Feeble shock.
	F	03 44 28	...	...	...	...	
July 31	AE						
	e	06 12 17	...	...	...	...	
	F	06 29 31	...	...	...	...	
July 31	AE						
	P	11 55 22	...	...	...	3035	Slight shock.
	S	12 00 08	...	...	...	...	
	F	12 29 02	...	...	...	...	
Aug. 2	AE						
	i	07 36 03?	...	...	...	...	Tremors.
	F	08 14 08?	...	...	...	...	
Aug. 3	AE						
	e	02 16 31	...	...	...	...	Do.
	F	02 21 46	...	...	...	...	
Aug. 4	AE						
	[i	13 29 34	...	...	...	...	Feeble shock.
	i	13 28 56	...	...	...	...	
	F	13 58 19	...	...	...	...	
Aug. 7	AE						
	iP	03 53 24	...	...	...	10555	Moderate shock.
	PR_1	03 57 10	...	...	...	...	
	PR_2?	03 59 29	...	...	...	...	
	ScPcS	04 03 52	...	...	...	...	
	ScPc PcS?	04 04 18	...	...	...	...	
	S	04 04 44	...	...	...	...	
	PS	04 05 52	...	...	...	...	
	PPS ?	04 06 36	...	...	...	...	
	SR_1	04 11 25	...	...	...	...	
	SR_2?	04 15 15	...	...	...	...	
	L?	04 26 03	...	...	...	...	
	M	04 32 47	...	...	...	...	
	F	07 04 19	...	...	...	...	
Aug. 7	AN						
	e	03 53 32	...	...	...	...	Moderate shock.
	F	06 11 39	...	...	...	...	

TABLE D 1—*contd.*

Date.	Phase.	Time. G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
Aug. 7	AE						
	eP	11 54 03	...	...	...	2190	Slight shock.
	PR_1?	11 54 20	...	...	...	...	
	PR_1?	11 54 29	...	...	...	...	
	S	11 57 44	...	...	...	...	
	SR_1	11 58 35	...	...	...	...	
	L	11 59 29	...	...	...	...	
	M	12 01 10	...	...	...	...	
	Mn	12 02 41	18	...	20	...	
	F	13 12 28	...	...	...	...	
Aug. 7	AN						
	e	11 54 15	...	...	...	...	Do.
	S	11 57 44	...	...	...	...	
	F	12 50 08	...	...	...	...	
Aug. 9	AE						
	e	19 55 55	...	...	...	...	Feeble shock.
	F	21 05 44	...	...	...	...	
Aug. 11	AE						
	eP	08 25 41	...	...	...	4465	Moderate shock.
	PR_2	08 27 27	...	...	...	...	
Aug. 11	AE						
	S	08 31 57	...	...	...	...	
	SR_2	08 35 12	...	...	...	...	
	L	08 37 09	...	...	...	...	
	M	08 40 30	...	...	...	...	
	F	10 01 40	...	...	...	...	
Aug. 11	AN						
	e	08 25 39	...	...	...	...	Do.
	F	09 41 34	...	...	...	...	
Aug. 11	AE						
	e	12 09 37	...	...	...	...	Distant slight shock.
	i	12 19 28	...	...	...	...	
	F	13 55 21	...	...	...	...	
Aug. 11	AN						
	e	12 10 07	...	...	...	...	Do.
	F	13 49 22	...	...	...	...	
Aug. 12	AE						
	P	23 58 15	...	...	...	5390	Moderate shock.
Aug. 13	PR_1	00 00 01	...	...	...	...	
	PR_2	00 00 52	...	...	...	...	
	S	00 05 21	...	...	...	...	
	PS	00 05 52	...	...	...	...	
	SR_1	00 08 42	...	...	...	...	
	SR_2?	00 10 06	...	...	...	...	
	L	00 12 51	...	...	...	...	
	Mn	00 21 06	20	...	46	...	
	F	01 58 14	...	...	...	...	
1934.		H. M. S.					
Aug. 12	AN						
	P	23 58 15	...	...	...	5390	Moderate Shock.
Aug. 13	S	00 05 21	...	...	...	...	
Aug. 13	AE						
	e	11 01 28	...	...	...	...	Tremors.
	F	11 24 11	...	...	...	...	
Aug. 14	AE						
	e	09 07 16	...	...	...	...	Feeble shock.
	F	10 03 03	...	...	...	...	
Aug. 18	AE						
	e	02 55 05	...	...	...	...	Do.
	F	03 42 02	...	...	...	...	
Aug. 21	AE						
	e	19 33 04	...	...	...	...	Slight shock.
	S	19 38 06	...	...	...	...	
	SR_1?	19 40 50	...	...	...	...	
	L	19 44 30	...	...	...	...	
	F	21 26 38	...	...	...	...	
Aug. 22	AE						
	e	06 55 36	...	...	...	...	Tremors.
	F	07 21 32	...	...	...	...	
Aug. 22	AE						
	e	10 30 21	...	...	...	...	Feeble shock.
	F	11 08 22	...	...	...	...	
Aug. 23	AE						
	e	23 54 17	...	...	...	...	Do.
Aug. 24	F	01 44 47	...	...	...	...	
Aug. 29	AE						
	eP	03 44 18	...	...	...	710	Slight shock.
	P*	03 44 40	...	...	...	...	
	$\overline{P}$	03 44 55	...	...	...	...	
	S	03 45 32	...	...	...	...	
	$\overline{S}$	03 46 22	...	...	...	...	
	F	04 07 36	...	...	...	...	
Aug. 29	AN						
	eP*	03 44 40	...	...	...	710	Do.
	S	03 45 32	...	...	...	...	
	$\overline{S}$	03 46 22	...	...	...	...	
	F	03 56 18	...	...	...	...	
Aug. 31	AE						
	P	05 14 43	...	...	...	8490	Distant slight shock.
	S	05 24 25	...	...	...	...	
	PS	05 25 07	...	...	...	...	
	SR_1	05 29 27	...	...	...	...	
	SR_2	05 32 21	...	...	...	...	
	L?	05 39 09	...	...	...	...	
	M	05 44 06	...	...	...	...	

TABLE D 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
Aug. 31	AE						
	F	08 09 49	...	...	...	...	Distant slight shock.
Aug. 31	AN						
	eP	05 14 43	...	...	...	...	Do.
	F	07 52 41	...	...	...	...	
Aug. 31	AE						
	iP	15 00 47	...	...	...	1300	Shock of great intensity.
	iS	15 03 07	...	...	...	...	
	L	15 03 51	...	...	...	...	
	F	16 36 41	...	...	...	...	
Aug. 31	AN						
	iP	15 00 47	...	...	...	1300	Do.
	S	15 03 07	...	...	...	...	
	Mn	15 05 18	...	483	...	...	
	F	16 06 56	18	...	...	...	
Aug. 31	AE						
	e	17 50 15	...	...	...	...	Tremors.
	F	18 00 59	...	...	...	...	
Sep. 1	AE						
	e	12 36 44	...	...	...	...	Slight shock.
	i	12 38 31	...	...	...	...	
	F	12 59 47	...	...	...	...	
Sep. 5	AE						
	e	02 31 35	...	...	...	...	Tremors.
	F	02 49 01	...	...	...	...	
Sep. 5	AE						
	e	10 26 32	...	...	...	...	Do.
	F	10 38 36	...	...	...	...	
Sep. 5	AE						
	e	12 31 19	...	...	...	...	Feeble shock.
	F	12 48 41	...	...	...	...	
Sep. 6	AE						
	i	02 25 31	...	...	...	...	Do.
	F	03 23 34	...	...	...	...	
Sep. 8	AE						
	P	06 48 01	...	...	...	1310	Slight shock.
	S	06 50 23	...	...	...	...	
	L?	06 51 12	...	...	...	...	
	Mn	06 53 37	10	...	9	...	
	F	07 29 49	...	...	...	...	
Sep. 8	AE						
	e	14 11 00	...	...	...	...	Feeble shock.
	F	14 29 22	...	...	...	...	
Sep. 9	AE						
	e	05 00 42	...	...	...	...	Slight shock.
	S	05 01 59	...	...	...	...	
	F	05 29 32	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
Sep. 9	AN						
	e	05 00 41	...	...	...	...	Slight shock.
	S	05 01 55	...	...	...	...	
	$\overline{S}$	05 02 40	...	...	...	..	
Sep. 11	AE						
	e	06 45 09	...	...	...	...	Feeble shock.
	F	06 59 47	...	...	...	...	
Sep 11	AE						
	e	08 20 17	...	...	...	...	Do.
	F	09 05 51	...	...	...	...	
Sep. 11	AE						
	e	14 12 05	...	...	...	1000	Slight shock.
	$\overline{F}$	14 13 07	...	...	...	...	
	S	14 13 55	...	...	...	...	
	$\overline{S}$	14 15 05	...	...	...	...	
	F	14 28 43	...	...	...	...	
Sep. 12	AE						
	e	14 42 28	...	...	...	...	Feeble shock.
	F	15 35 48	...	...	...	...	
Sep. 12	AE						
	e	18 01 16	...	...	...	...	Do.
	F	18 35 47	...	...	...	...	
Sep. 13	AE						
	e	03 23 08	...	...	...	...	
	F	03 51 26	...	...	...	...	
Sep. 13	AE						
	e	14 36 46	...	...	...	...	Tremors.
	F	15 19 52	...	...	...	...	
Sep. 18	AE						
	e	07 14 24	...	...	...	...	
	F	07 29 21	...	...	...	...	
Sep. 20	AE						
	e	19 48 37	...	...	...	...	Do.
	F	20 02 47	...	...	...	...	
Sep. 21	AE						
		12 45 19	...	...	...	...	Slight shock.
	i	12 45 45	...	...	...	...	
	i	12 50 29	...	...	...	...	
	L?	12 51 43	...	...	...	...	
	M	12 53 47	...	...	...	...	
Sep. 23	AE						
	P	01 29 55	...	...	...	910	Do.
Sep. 23	AE						
	P*	01 30 23	...	...	...	...	
	P	01 30 51	...	...	...	...	

TABLE D 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A N	Amplitude (μ). A E	△ Kms.	Remarks.
1934.		H. M. S.					
Sep. 23	AE						
	S	01 31 35	...	...	...	...	
	S*	01 32 05	...	...	...	...	
	$\overline{S}$	01 32 57	...	...	...	...	
	F	01 59 43	...	...	...	...	
Sep. 23	AE						
	e	08 23 29	...	...	...	...	Feeble shock.
	F	09 33 49	...	...	...	...	
Sep. 25	AE						
	i	19 26 18	...	...	...	...	Do.
	F	20 17 15	...	...	...	...	
Sep. 25	AE						
	e	23 28 55	...	...	...	...	Do.
	F	23 51 51	...	...	...	...	
Sep. 26	AE						
	e	16 15 29	...	...	...	...	
	F	16 35 59	...	...	...	...	
Sep. 27	AE						
	e	22 57 39	...	...	...	...	Do.
	F	23 15 05	...	...	...	...	
Oct. 1	AE						
	e	17 14 59	...	...	...	...	Slight shock
	F	17 22 46	...	...	...	...	
Oct. 5	AE						
	iP	20 35 24	...	...	...	5890	Do.
	ePR$_1$	20 37 25	...	...	...	...	
	S	20 42 55	...	...	...	...	
	PS	20 43 33	...	...	...	...	
	F	21 35 18	...	...	...	...	
Oct. 15	AE						
	e	08 30 59	...	...	...	...	Do.
Oct. 15	AE						
	F	09 23 04	...	...	...	...	
Oct. 18	AE						
	eP	08 01 41	...	...	...	10135	Distant moderate shock.
	ePR$_1$	08 05 05	...	...	...	...	
	ePR$_2$	08 07 07	...	...	...	...	
	$\overline{ScPcS}$?	08 12 01	...	...	...	...	
	S	08 12 25	...	...	...	...	
	PS	08 13 31	...	...	...	...	
	PPS	08 13 55	...	...	...	...	
	SR$_1$	08 18 31	...	...	...	...	
	SR$_2$?	08 22 21	...	...	...	...	
	F	11 00 29	...	...	...	...	
Oct. 19	AE						
	iP	21 00 09	...	...	...	560	Moderate shock near.
	S	21 01 09	...	...	...	...	
1934.		H. M. S.					
Oct. 19	AE						
	$\overline{S}$	21 01 49	...	...	...	...	
	F	21 52 17	...	...	...	...	
Oct. 19	AN						
	e	21 00 21	...	...	...	...	Moderate shocks near.
	$\overline{S}$	21 01 49	...	...	...	...	
	F	21 25 33	...	...	...	...	
Oct. 20	AE						
	e	08 19 52	...	...	...	...	Tremors.
	F	08 28 12	...	...	...	...	
Oct. 21	AE						
	i	18 03 43	...	...	...	...	Slight shock.
	F	19 07 51	...	...	...	...	
Oct. 21	AE						
	e	19 09 02	...	...	...	...	Do.
	F	19 16 37	...	...	...	...	
Oct. 22	AE						
	e	01 05 09	...	...	...	...	Do.
Oct. 22	AE						
	S ?	01 05 29	...	...	...	...	
	F	01 25 47	...	...	...	...	
Oct. 22	AN						
	e	01 05 15	...	...	...	...	Slight shock.
	F	01 12 59	...	...	...	...	
Oct. 25	AE						
	eP	01 34 49	...	...	...	055	Do.
	iS	01 36 43	...	...	...	...	
	$\overline{S}$	01 37 51	...	...	...	...	
Oct. 25	AN						
	e	01 36 41	...	...	...	...	Do.
	$\overline{S}$	01 37 51	...	...	...	...	
	F	01 45 49	...	...	...	...	
Oct. 25	AE						
	e	10 24 17	...	...	...	...	Very feeble shock.
	i	10 24 44	...	...	...	...	
	F	10 32 57	...	...	...	...	
Oct. 26	AE						
	iP	14 53 09	...	...	...	5260	Slight shock.
	PR$_2$	14 55 39	...	...	...	...	
	iS	15 00 08	...	...	...	...	
	SR$_1$?	15 03 25	...	...	...	...	
	F	15 52 57	...	...	...	...	
Oct. 26	AN						
	i	15 00 05	...	...	...	...	Do.
Oct. 26	AE						
	iP	17 19 37	...	...	...	5045	Moderate shock

TABLE D 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
Oct. 26	AE						
	PR_1	17 21 24	...	...	...	...	
	PR_2	17 22 05	...	...	...	...	
	S	17 26 24	...	...	...	...	
	SR_1	17 29 33	...	...	...	...	
	SR_2	17 30 57	...	...	...	...	
Oct. 26	AE						
	M_B	17 43 39	15	...	27	...	
	F?	19 32 49	...	...	...	...	
Oct. 26	AN						
	i	17 26 26	...	...	...	...	
Oct. 29	AE						
	iP	16 21 33	...	...	...	3020	Slight shock.
	ePR_1	16 22 17	...	...	...	...	
	iS	16 26 18	...	...	...	...	
	SR_1	16 27 41	...	...	...	...	
	L	16 29 20	...	...	...	...	
	F?	18 08 05	...	...	...	...	
Oct. 29	AN						
	e	16 26 13	...	...	...	...	Do.
	i	16 27 01	...	...	...	...	
	F	16 50 21	...	...	...	...	
Nov. 2	AE						
	e	15 21 51	...	...	...	...	Do.
	F	15 39 59	...	...	...	...	
Nov. 3	AE						
	e	13 26 53	...	...	...	...	Do.
	F	13 38 06	...	...	...	...	
Nov. 4	AE						
	e	02 12 18	...	...	...	...	Distant moderate shock.
	e	02 21 23	...	...	...	...	
	F	Masked by the following shock.					
Nov. 4	AE						
	i	03 40 27	...	...	...	...	Do.
	F	06 23 40	...	...	...	...	
Nov. 5	AE						
	iP	23 14 27	...	...	...	...	Do.
	S?	23 24 19	...	...	...	...	
Nov. 5	AE						
	SR_1?	23 29 45	...	...	...	...	
	F	Lost while removing chart.					
Nov. 9	AE						
	e	04 18 09	...	...	...	...	Feeble shock.
	F	04 42 33	...	...	...	...	
Nov. 9	AE						
	i	13 55 29	...	...	...	...	Tremors
	F	14 01 27	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
1934.		H. M. S.					
Nov. 11	AE						
	P	14 18 13	...	...	...	930	Slight shock.
	iS	04 19 03	...	...	...	...	
	S	04 19 53	...	...	...	...	
	F	04 29 42	...	...	...	...	
Nov. 11	AN						
	iS	04 19 03	...	...	...	930	Do.
	iS	04 19 53	...	...	...	...	
	F	04 24 43	...	...	...	...	
Nov. 12	AE						
	eP	07 26 03	...	...	...	3565	Moderate shock.
	PR_2?	07 27 27	...	...	...	...	
	eS	07 31 17	...	...	...	...	
	L	07 35 07	...	...	...	...	
	M	07 38 09	...	...	...	...	
	F	08 53 07	...	...	...	...	
Nov. 12	AN						
	e	07 31 19	...	...	...	...	Do.
	Mn	07 39 27	20	77	...	...	
Nov. 15	AE						
	iP	23 17 21	...	...	...	1020	Slight shock.
	P*	23 17 51	...	...	...	...	
	iS	23 19 11	...	...	...	...	
Nov. 15	AE						
	iS*	23 19 51	...	...	...	...	
	F	23 43 41	...	...	...	...	
Nov. 15	AN						
	P	23 17 21	...	...	...	1020	Do.
	eS	23 19 17	...	...	...	...	
Nov. 16	AE						
	eP	13 54 43	...	...	...	...	Distant slight shock.
	i	14 04 09	...	...	...	...	
	F	15 42 37	...	...	...	...	
Nov. 18	AE						
	iP	03 23 55	...	...	...	...	Moderate shock (Felt at Peshawar, Lahore, Delhi and Amritsar).
	eF	04 58 35	...	...	...	...	
Nov. 18	AN						
	iP	03 23 55	...	...	...	...	Do.
	F	03 24 45	...	...	...	...	
	S	03 25 12	...	...	...	...	
	S*	03 25 49	...	...	...	...	
	S	03 26 19	...	...	...	...	
	F	04 03 45	...	...	...	...	
Nov. 18	AE						
	e	09 38 02	...	...	...	...	Slight shock.
	F	10 34 47	...	...	...	...	

TABLE D 1—*contd.*

Date.	Phase.	Time G.M.T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
		H. M. S.					
1934.							
Nov. 18	AE						
	iP	22 52 15	...	...	...	8690	Distant slight shock
	ePR$_1$	22 55 08	...	...	...	...	
	iS	23 02 05	...	...	...	...	
	PS	23 02 45	...	...	...	...	
	SR$_1$	23 07 27	...	...	...	...	
	SR$_2$	23 10 32	...	...	...	...	
	F	Lost while removing chart.					
Nov. 19	AE						
	e	10 03 35	...	...	...	...	Slight shock.
Nov. 19	AE						
	i	10 04 15	...	...	...	...	
	F	10 19 30	...	...	...	...	
Nov. 24	AE						
	e	12 58 42	...	...	...	...	Do.
	F	14 42 53	...	...	...	...	
Nov 26	AE						
	i	12 16 56	...	...	...	...	Do.
	i	12 22 48	...	...	...	...	
	F	13 56 15	...	...	...	...	
Nov. 26	AN						
	e	12 19 07		...	...	...	Do.
Nov. 27	AE						
	iP	06 23 29	...	...	...	6000	Do.
	PR$_1$	06 25 29	...	...	...	...	
	PR$_2$	06 26 33	...	...	...	...	
	iS	06 30 55	...	...	...	...	
	PS	06 31 33	...	...	...	...	
	SR$_1$	06 34 35	...	...	...	...	
	SR$_2$	06 36 23	...	...	...	...	
Nov. 27	AN						
	eP	06 23 22	...	...	...	6000	Do.
	iS	06 30 55	...	...	...	...	
	F	07 09 29		...	...	...	
Nov. 30	AE						
	eP	02 24 37	...	...	...	...	Distant moderate shock.
	P'	02 28 27	...	...	...	...	
	PR$_1$	02 29 20	...	...	...	...	
	PR$_2$	02 31 43	...	...	...	...	
	ScPcS	02 35 20	...	...	...	...	
	SR$_1$	02 44 50	...	...	...	...	
	eL	03 04 13	...	...	...	...	
	Mn	03 19 55	20	...	52	...	
Nov. 30	AE						
	F ?	05 12 08	...	...	...	...	
Nov. 30	AN						
	e	02 24 50	...	...	...	...	Do.

Date.	Phase.	Time M.G.T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	△ Kms.	Remarks.
		H. M. S.					
1934.							
Nov. 30	AE						
	F'	02 28 23	...	...	...	...	
Dec. 2	AE						
	e	16 55 27	...	...	...	...	Tremors.
	F	17 05 39	...	...	...	...	
Dec. 7	AE						
	e	04 55 40	...	...	...	...	Feeble shock.
	F	05 14 18	...	...	...	...	
Dec. 9	AE						
	P	11 27 07	...	...	...	4055	Slight shock.
	S	11 33 33	...	...	...	...	
	SR$_2$	11 37 15	...	...	...	...	
	eL	11 39 40	...	...	...	...	
	F	12 08 10	...	...	...	...	
Dec. 12	AE						
	e	03 21 52	...	...	...	...	Do.
	e	03 22 25	...	...	...	...	
	S	03 23 36	...	...	...	...	
	F	03 33 36	...	...	...	...	
Dec. 14	AE						
	P	20 45 01	...	...	...	...	Apparently a fore-shock of the Tibet Earthquake.
	iS	20 46 57	...	...	...	...	
	S*	20 47 33	...	...	...	...	
	iS	20 48 07	...	...	...	...	
	Mn	20 50 01	8	...	17	...	
	eF	21 26 16	...	...	...	...	
Dec. 14	AN						
	eS	20 46 57	...	...	...	...	Do.
	S*	20 47 33	...	...	...	...	
	S	20 48 07		...	...	...	
Dec. 14	AN						
	F	21 07 55	...	...	...	...	
Dec. 15	AE						
	P	02 00 12	...	...	...	...	Shock of very great intensity (The great Tibet Earthquake).
Dec. 15	AN						
	iP	02 00 12	...	...	...	1100	Do.
	iS	02 02 08	...	...	...	...	
	L	02 02 37	...	...	...	...	
	Mn	...	...	>910	...	...	Motion of the recording pen restricted due to sidesteps for about four minutes.
	F	03 52 36	...	...	...	...	
Dec. 15	AE						
	eS	17 57 23	...	...	...	...	Apparently an after-shock of the Tibet Earthquake.
	S	17 58 28	...	...	...	...	
	F	18 20 11	...	...	...	...	
Dec. 15	AE						
	e	19 32 30	...	...	...	...	Slight shock.

TABLE D 1—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). N	Amplitude (μ). E	△ Kms.	Remarks.
		H. M. S.					
1934.							
Dec. 15	AE						
	i	19 38 51?	...	...	...	...	
	F	20 44 35	...	...	...	...	
Dec. 16	AE						
	e	16 15 03	...	...	...	...	Apparently an after-shock of the Tibet Earthquake.
	e	16 16 13	...	...	...	...	
	F	16 37 46	...	...	...	...	
Dec. 16	AE						
	e	19 17 36	...	...	...	...	Tremors.
	F	19 34 43	...	...	...	...	
Dec. 16	AE						
	e	20 44 33	...	...	...	...	Apparently an after-shock of the Tibet Earthquake.
	F	20 59 26	...	...	...	...	
Dec. 16	AE						
	eP	23 37 49	...	...	...	...	Do.
	S	23 39 41	...	...	...	...	
	$\bar{S}$	23 40 55	...	...	...	...	
Dec. 17	AE						
	F	00 02 19	...	...	...	...	
Dec. 17	AE						
	e	06 50 17	...	...	...	..	Apparently an after-shock of the Tibet Earthquake.
	F	07 12 10	...	...	...	...	
Dec. 17	AN						
	e	08 51 30	...	...	...	...	Do
Dec. 17	AE						
	e	09 20 14	...	...	...	...	Do.
	e	09 21 31	...	...	...	...	
	F	09 46 28	...	...	...	...	
Dec. 17	AN						
	e	09 21 11	...	...	...	...	Do.
	F	09 30 59	...	...	...	...	
Dec. 17	AE						
	e	14 45 19	...	...	...	...	Do.
	e	14 46 25	...	...	...	...	
	F	15 07 49	...	...	...	...	
Dec. 17	AN						
	e	14 46 25	...	...	...	...	Do.
	F	14 51 21	...	...	...	...	
Dec. 17	AE						
	P	16 04 18	...	...	...	8625	Distant slight shock.
	iS	16 13 47	...	...	...	...	
	PS	16 14 30	...	...	...	...	
	SR_1	16 18 57?	...	...	...	...	
	SR_2	16 21 49?	...	...	...	...	
	F	18 14 51	...	...	...	...	
Dec. 17	AN						
	e	16 13 44	...	...	...	...	Do.
Dec. 17	AE						
	e	22 35 51	...	...	...	...	Apparently an after-shock of the Tibet Earthquake.
	F	22 58 28	...	...	...	...	
1934.							
Dec. 17	AE						
	e	22 37 15	...	...	...	...	Apparently an after-shock of the Tibet Earthquake
	F	22 43 18	...	...	...	...	
Dec. 17	AE						
	i	23 14 39	...	...	...	.	Slight shock. Felt at Muzaffarpur.
	F	23 17 45	...	...	...	...	
Dec. 17	AN						
	e	23 14 41	...	...	...	...	Do.
Dec. 18	AE						
	P	11 24 47	...	...	...	...	Apparently an after-shock of the Tibet Earthquake.
	iS	11 26 43	...	...	...	...	
	S*	11 27 14	...	...	...	...	
	iS	11 27 41	...	...	...	...	
	eF	12 39 31	...	...	...	...	
Dec. 18	AN						
	S	11 26 43	...	...	...	..	Do.
	S*	11 27 14	...	...	...	...	
	iS	11 27 41	...	...	...	...	
	F	11 52 23	...	...	...	..	
Dec. 19	AE						
	eP	03 06 23	...	...	...	...	Do.
	S	03 08 18	...	...	...	...	
	iS	03 09 27	...	...	...	...	
	eF	03 45 14	...	...	...	...	
Dec. 21	AE						
	eP	06 37 09	...	...	...	...	Do.
	$\bar{P}$	06 38 17	...	...	...	...	
	S	06 39 07	...	...	...	...	
	S*	06 39 38	...	...	...	...	
	$\bar{S}$	06 40 12	...	...	...	...	
	F	07 15 01	...	...	...	...	
Dec. 21	AN						
	eS	06 39 07	...	...	...	...	Do.
Dec. 21	AN						
	$\bar{S}$	06 40 12	...	...	...	...	
	F	06 54 31	...	...	...	...	
Dec. 21	AE						
	P	12 41 33	...	...	...	...	Do.
	$\bar{P}$	12 42 35	...	...	...	...	
	S	12 43 33	...	...	...	...	
	S*	12 44 16	...	...	...	...	
	iS	12 44 35	...	...	...	...	
	Mn	12 46 30?	8	...	23	...	
	F?	13 31 05	...	...	...	...	
Dec. 21	AN						
	eP	12 41 33	...	...	...	...	Do.
	iS	12 43 33	...	...	...	...	
	S*	12 44 16	...	...	...	...	
	S	12 44 35	...	...	...	...	
	F	13 05 55	...	...	...	...	

TABLE D 1--*concld.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A N	Amplitude (μ). A E	△ Kms.	Remarks.
		H. M. S.					
1934.							
Dec. 22	AE						
	e	10 59 37	...	...	...	...	Slight shock.
	F	12 11 41	...	...	...	...	
Dec. 22	AN						
	e	11 04 59	...	...	...	...	Do.
Dec. 22	AE						
	e	14 52 35	...	...	...	...	Distant moderate shock.
	F	17 05 43	...	...	...	...	
Dec. 23	AE						
	e	10 12 09	...	...	...	...	Slight shock.
	e	10 15 37	...	...	...	...	
	F	11 48 20	...	...	...	...	
Dec. 25	AE						
	e	06 37 41	...	...	...	...	Do.
Dec. 27	AE						
	e	12 39 39?	...	...	...	..	Do.
Dec. 27	AE						
	F	12 53 19?	...	...	...	...	
Dec. 27	AE						
	P	13 39 53	...	...	...	645	Slight shock, Felt at Lahore.
	$\bar{P}$	13 40 36	...	...	...	..	
	S	13 41 11	...	...	...	...	
	$\bar{S}$	13 41 50?	...	...	...	...	
	F	14 09 33	...	...	...	...	
Dec. 27	AN						
	e	13 41 05	...	...	...	...	Do
	i	13 41 56	...	...	...	...	
	F	13 50 10	...	...	...	...	
Dec. 29	AE						
	e	23 22 03	...	...	...	...	Tremors.
	F	23 28 53	...	...	...	...	

Upper Air Observatory, Agra.

G. CHATTERJEE,
Meteorologist-in-charge.

STATION—COLABA, BOMBAY.

Lat. 18° 54′ N Long. 72° 49′ E. Height above M.S.L.—6 metres.

LITHOLOGIC FOUNDATION : TRAP ROCK.

INSTRUMENTS :—Milne-Shaw seismographs, North-South (N) and East-West (E) components, installed in an underground constant temperature room. Photographic Registration.

INSTRUMENTAL CONSTANTS.

Compt.	Steady mass Kg.	T. (sec.).	Vm	ε	Paper speed mm./min.
N	0·45	12	250	20 : 1	8
E	0·45	12	350	22 : 1	8

TABLE D 2.

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1934.							
Jan. 1	N,E	P	06 26 06	...	...	5870	Slight.
	N,E	S	06 33 39	...	...	...	Epc: 6° S., 119° E., south of Celebes Island. (East Indies).
	E	L	06 44 24	...	...	...	
	N	Mn	06 55 01	...	...	...	
	E	Mn	06 51 58	...	...	...	
	N	F	07 30 ...	...	...	...	
	E	F	07 28 ...	...	...	...	
Jan. 2	N,E	iP	20 59 49	...	...	2090	Slight.
	N,E	iS	21 03 22	...	...	...	Epc: 33° N., 59° E., (Persia).
	N,E	L	21 05 14	...	...	...	
	N	Mn	21 09 18	14	9	...	
	E	Mn	21 10 33	12	9	...	
	N	F	21 55 ...	...	...	...	
	E	F	21 53 ...	...	...	...	
Jan. 3	N,E	iP	09 53 21	...	...	7300	Slight. L.-waves poor.
	N,E	PR_4	09 55 58	...	...	...	Epc: 53° N., 155° E. (U. S. C. G. S.)
	NE	PR_3	09 56 59	...	...	...	Sea of Okhotsk.
	N,E	iS	10 02 14	...	...	...	
	E	PS	10 02 49	...	...	...	
	N,E	SR_2	10 08 58	...	...	...	
	E	Mn	10 20 05	...	...	...	
	N	F	11 14 ...	...	...	...	
	E	F	11 08 ...	...	...	...	
Jan. 11	N	Mn	11 18 34	...	...	...	Very feeble.
	E	Mn	11 17 08	...	...	...	Beginning uncertain.
	N	F	11 33 ...	...	...	...	
	E	F	11 31 ...	...	...	...	
Jan. 12	N,E	eP	13 37 43	.	...	3055	Slight.
	N,E	eS	13 42 30	...	...	...	Epc: 25° N., 102° E., China.
	N	eL	13 45 27	...	...	...	
	N	Mn	13 52 15	...	...	...	
	E	Mn	13 50 56	...	...	...	
	N	F	14 37 ...	...	...	...	
	E	F	14 36 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1934.							
Jan. 15	N,E	eP	08 46 46	...	...	1610	iP preceded by small fore-running tremors eP of 6 seconds' duration. E-W. Milne-Shaw failed to record after iP and N-S after incidence of S-Phase.
	N	iP	08 46 52	...	...	...	
	N	PR (?)	08 47 01	...	...	...	
	N,E	$\overline{F}$	08 48 20	...	...	...	
	N,E	S	08 49 38	...	...	...	Times of F, S and L taken from Omori-Ewing seismographs. N-S maximum movements not recorded, E-W maximum movements restricted by stops. Epc : 26°·0 N 86°·2 E Origin time of eP : 8h. 43 m. 16 s. Disastrous North Behar Earthquake.
	N,E	L	08 50 30	...	...	...	
	E	Mn	... ...	...	10,000	...	
	N	F	13 30 ...	...	...	...	
	E	F	13 28 ...	...	...	...	
Jan. 16	E	eP	05 02 29	...	...	1445	Slight.
	N,E	eS	05 05 03	...	...	...	Aftershock of Behar Earthquake.
	N.E	SR_1	05 05 26	...	...	...	
	N,E	eL	05 05 48	...	...	...	
	N	Mn	05 06 52	8	12	...	
	N	F	05 31 ...	...	...	...	
	E	F	05 38 ...	...	...	...	
Jan. 16-17	N,E	P	18 48 54	...	...	5665	Slight.
	N,E	S	18 56 16	...	...	...	Epc : 4° N., 122° E. Celebes Sea.
	N,E	L	19 06 09	...	...	...	
	E	Mn	19 17 09	15	4	...	
	N	F	01 02 ...	...	...	...	
	E	F	01 06 ...	...	...	...	
Jan. 19	N,E	iP	12 38 34	...	...	2600	Slight.
	N,E	iS	12 42 48	...	...	...	Epc: 27° N., 96° E., North Burma.
	N	Mn	12 47 37	7	9	...	
	E	Mn	12 47 55	...	...	...	
	N,E	F	13 27 ...	...	...	...	
Jan. 19	N.E	eP	18 53 16	...	...	1490	Slight.
	N,E	PR_2	18 53 26	...	...	...	Aftershock of Behar Earthquake.
	N,E	iS	18 55 55	...	...	...	
	N,E	SR_1	18 56 21	...	...	...	
	N,E	eL	18 56 41	...	...	...	

TABLE D 2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H M S.	Sec.	μ	Km.	
Jan. 19	N	Mn	18 57 51	3	18	...	
	N,E	F	19 17 ...	...	...	...	
Jan. 20	N	Mn	17 46 12	...	...	...	Seismic activity.
	E	Mn	17 47 12	...	...	...	
Jan. 20	N,E	P	18 03 27	...	...	4010	Slight. Epc: 40° N., 107° E., Orios District in Mongolia.
	N,E	S	18 09 15	...	...	...	
	N,E	L	18 14 44	...	...	...	
	N,E	M	18 19 46	N15	13	...	
	N	F	19 32 ...	E 14	9	...	
	E	F	19 31 ...	...	...	...	
Jan. 20	N, E	e	22 51 56	...	...	...	Slight. Distant.
	N	Mn	23 20 42	...	...	...	
	E	Mn	23 23 33	...	...	...	
	N	F	23 54 ...	...	...	...	
	E	F	23 53 ...	...	...	...	
Jan. 21	N	e	06 56 31	...	...	...	Slight. Aftershock of Behar Earthquake.
	N	Mn	06 59 19	...	...	...	
	N	F	Marked by the following shock.				
Jan. 21	N	i	07 10 58	...	...	...	Feeble. Distant.
	N	Mn	07 24 02	...	...	...	
	N	F	08 11 ...	...	...	...	
Jan. 21	N	eS	19 55 43	...	...	...	Slight. Aftershock of Behar Earthquake. Beginning uncertain
	N	eL	19 56 45	...	...	...	
	N	Mn	19 57 36	...	...	...	
	N	F	20 09 ...	...	...	...	
Jan. 22	N,E	e	07 59 49	...	...	...	Slight. Distant.
	N	Mn	08 18 25	...	...	...	
	E	Mn	08 21 15	...	...	...	
	N	F	08 58 ...	...	...	...	
	E	F	08 52 ...	...	...	...	
Jan. 28	N,E	eP	19 29 42	...	...	16135	Moderate. Epc: 17° N. 100° W. (U. S. C. G. S.) Destructive in southern and central Mexico.
	N	PR_1	19 32 56	...	...	...	
	N,E	ScPcP	19 33 15	...	...	...	
	N,E	PR_2	19 36 07	...	...	...	
	N,E	ScPcS	19 36 38	...	...	...	
	E	ScPcPcS	19 39 33	...	...	...	
	N,E	PScPcS	19 42 56	...	...	...	
	N,E	SR_1	19 51 35	...	...	...	
	N,E	eL	20 19 ...	...	...	...	
	N	Mn	20 45 18	17	10	...	
	E	Mn	20 42 52	19	11	...	
	N	F	21 45 ...	...	...	...	
	E	F	21 47 ...	...	...	...	
Jan. 30	N	Mn	21 35 20	...	...	...	Very feeble. Distant.
	E	Mn	21 34 12	...	...	...	
	N,E	F	22 15 ...	...	...	...	
Feb. 2	N,E	P	15 15 59	...	...	7110	Slight.
	N,E	S	15 24 42	...	...	...	
1934.							
Feb. 2	E	L	15 38 10	...	...	...	Epc: 2° S., 133° E., Dutch New Guinea.
	E	Mn	15 44 17	15	4	...	
	N	F	16 52 ...	...	...	...	
	E	F	16 51 ...	...	...	...	
Feb. 2	N	e	19 24 ...	...	...	...	Tremors.
	E	e	19 23 ...	...	...	...	
	N	f	19 50 ...	...	...	...	
	E	f	19 54 ...	...	...	...	
Feb. 3	N,E	P	14 45 22	...	...	8860	Slight.
	N,E	S	14 55 27	...	...	...	Epc: 8° N., 153° E. Caroline Islands.
	N,E	PS	14 56 04	...	...	...	
	N	L	15 09 27	...	...	...	
	E	L	15 09 57	...	...	...	
	N	Mn	15 18 16	22	8	...	
	E	Mn	15 18 50	23	10	...	
	N	F	17 33 ...	...	...	...	
	E	F	17 36 ...	...	...	...	
Feb. 3	N	e	03 20 55	...	...	...	Slight. Distant.
	E	i	03 20 48	...	...	...	
	N,E	i	03 29 01	...	...	...	
	N	F	03 56 ...	...	...	...	
	E	F	04 16 ...	...	...	...	
Feb. 4	N,E	e	12 55 52	...	...	...	Slight. Near.
	N,E	i	12 56 38	...	...	...	
	N	Mn	13 01 11	7	5	...	
	E	Mn	13 01 12	7	3	...	
	N	F	13 26 ...	...	...	...	
	E	F	13 27 ...	...	...	...	
Feb. 4	N,E	P	13 32 18	...	...	2480	Moderate. L.-Waves not well developed Max. movement near S. Epc: 31° N., 52° E., Persia.
	N,E	PR_1	13 32 48	...	...	...	
	N,E	S	13 36 22	...	...	...	
	N,E	SR_1	13 37 22	...	...	...	
	E	L	13 38 45	...	...	...	
	N	F	15 28 ...	...	...	...	
	E	F	15 29 ...	...	...	...	
Feb. 4	N,E	P	22 11 27	...	...	6620	Slight.
	N,E	S	22 19 43	...	...	...	Epc: 5°S., 127°E., Banda Sea (East Indies).
	N,E	L	22 32 24	...	...	...	
	E	Mn	22 38 01	21	8	...	
	N	F	23 33 ...	...	...	...	
	E	F	23 35 ...	...	...	...	
Feb. 9	N	e	06 21 ...	...	...	...	Tremors.
	E	e	06 18 ...	...	...	...	
	N	i	06 29 ...	...	...	...	
	E	i	06 36 ...	...	...	...	
Feb. 9	N,E	eP	09 41 06	...	...	8735	Slight.
	N,E	S	09 51 06	...	...	...	Epc: 10° S., 144° E.
	N	Mn	10 11 21	30	10	...	Torres Strait (South of British New Guinea).
	E	Mn	10 10 24	33	9	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1934.							
Feb. 9	N	F	10 53 ...	...	...	...	
	E	F	11 01 ...	...	...	...	
Feb. 9	N,E	e	11 39 16	...	...	...	Feeble. Distant.
	N	Mn	12 17 16	19	3	...	
	E	Mn	12 18 16	19	2	...	
	N	F	12 50 ...	...	...	...	
	E	F	13 03 ...	...	...	...	
Feb. 9	N,E	e	16 35 ...	...	...	...	Tremors.
	N	f	16 41 ...	...	...	...	
	E	f	16 39 ...	...	...	...	
Feb. 9	N	e	22 56 ...	...	...	...	Tremors.
	E	e	22 51 ...	...	...	...	
	N, E	f	23 15 ...	...	...	...	
Feb. 10	N, E	e	04 50 29	...	...	...	Slight.
	N, E	e	04 53 18	...	...	...	Aftershock of Bihar Earthquake.
	N, E	eL	04 55 22	...	...	...	
	N	Mn	04 56 14	...	...	...	
	E	Mn	04 56 33	...	...	...	
	N	F	05 12 ...	...	...	...	
	E	F	05 08 ...	...	...	...	
Feb. 11	N, E	e	09 12 02	...	...	...	Slight. Near.
	N	Mn	09 22 21	...	...	...	
	E	Mn	09 23 02	...	...	...	
	N	F	09 48 ...	...	...	...	
	E	F	10 03 ...	...	...	...	
Feb. 11	N, E	e	14 59 ...	...	...	...	Slight. Near.
	N	f	15 07 ...	...	...	...	
	E	f	15 05 ...	...	...	...	
Feb. 12	N,E	e	04 00 10	...	...	...	Slight.
	N,E	e	04 08 02	...	...	...	Aftershock of Bihar Slight Earthquake.
	N,E	eL	04 04 10	...	...	...	
	N,E	F	04 16 ...	...	...	...	
Feb. 12	N,E	eP	11 36 14	...	...	3240	Slight.
	N,E	S	11 41 14	...	...	...	Epc: 24° N., 103° E., South China.
	N,E	L	11 44 50	...	...	...	
	N,E	Mn	11 49 19	11	15	...	
	N,E	F	13 21 ...	...	...	...	
Feb. 13	N	e	10 03 ...	...	...	...	Tremors.
	N	f	10 14 ...	...	...	...	
Feb. 13	N	e	10 31 ...	...	...	...	Tremors.
	E	e	10 29 ...	...	...	...	
	N	f	10 46 ...	...	...	...	
	E		10 45 ...	...	...	...	
Feb. 13	N,E	e	20 35 ...	...	...	...	Tremors.
	N,E	f	Marked by the following tremors.				
Feb. 13	N,E	e	20 39 ...	...	...	...	Tremors.
	N	f	21 12 ...	...	...	...	
	E	f	21 13 ...	...	...	...	
Feb. 14	N,E	e	01 30 37	...	...	...	Slight. Near.
	N,E	Mn	01 39 17	...	...	...	
	N	F	01 56 ...	...	...	...	
	E	F	01 33 ...	...	...	...	
Feb. 14	N,E	iP	04 07 49	...	...	4700	Great.
	N	ePR_1	04 09 19	...	...	...	Epc: 17° 20′ N., 119 20′ E. (Manila) China Sea.
	E	PR_2	04 09 50	...	...	...	
	N,E	iS	04 14 17	...	...	...	
	N	iPS	04 14 32	...	...	...	
	N,E	iSR_1	04 17 07	...	...	...	
	N,E	iSR_2	04 17 57	...	...	...	
	N,E	L	04 20 31	...	...	...	
	N	Mn	04 30 37	13	232	...	
	N	F	09 16 ...	...	...	...	
	E	F	09 22 ...	...	...	...	
Feb. 14	N,E	eP	17 22 57	...	...	4645	Slight. Probably aftershock of the previous great shock.
	N,E	eS	17 29 22	...	...	...	
	N,E	eL	17 36 34	...	...	...	
	N	Mn	17 42 38	13	3	...	
	E	Mn	17 44 27	13	2	...	
	N	F	18 10 ...	...	...	...	
	E	F	18 17 ...	...	...	...	
Feb. 14	N	e	19 28 ...	...	...	...	Tremors.
	E	e	19 16 ...	...	...	...	
	N	f	19 54 ...	...	...	...	
	E	f	19 59 ...	...	...	...	
Feb. 15	N	e	02 36 ...	...	...	...	Tremors.
	E	e	02 30 ...	...	...	...	
	N,E	f	03 05 ...	...	...	...	
Feb. 16	N,E	eP	06 36 00	...	...	10335	Slight.
	N,E	eS	06 47 08	...	...	...	
	N	Mn	07 14 48	13	3	...	
	E	Mn	07 14 25	13	3	...	
	N	F	07 49 ...	...	...	...	
	E	F	07 57 ...	...	...	...	
Feb. 16	N	e	07 59 ...	...	...	...	Tremors.
	E	e	08 05 ...	...	...	...	
	N	f	08 26 ...	...	...	...	
	E		08 31 ...	...	...	...	
Feb. 17	N	e	02 54 30	...	...	...	Slight. Near.
	N	e	02 57 30	...	...	...	
	N	F	03 09 ...	...	...	...	
Feb. 18	N,E	e	21 12 15	...	...	...	Slight. Distant.
	N,E	e	21 20 26	...	...	...	

TABLE D 2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1934.							
Feb. 18	N	Mn	21 40 15	Movements very small.			
	E	Mn	21 41 ...	19	2	...	
	N	F	22 01 ...	...	...	...	
	E	F	22 05 ...	...	...	...	
Feb. 18	N,E	e	13 07 ...	...	...	...	Slight. Near
	N	f	13 19 ...	...	...	...	
	E	f	13 22 ...	...	...	...	
Feb. 19	N,E	eP	10 31 42	...	...	3750	Slight.
	N,E	iS	10 37 13	...	...	...	Epc : 2° S., 100° E., South Sumatra.
	N,E	L	10 42 13	...	...	...	
	N	Mn	10 48 37	14	10	...	
	E	Mn	10 49 33	14	17	...	
	N	F	13 19 ...	...	...	...	
	E	F	13 32 ...	...	...	...	
Feb. 20	N	e	04 42 ...	...	...	...	Tremors.
	E	e	04 34 ...	...	...	...	
	N	f	05 11 ...	...	...	...	
	E	f	05 28 ...	...	...	...	
Feb. 20	N	e	20 11 ...	...	...	...	Tremors.
	E	e	20 15 ...	...	...	...	
	N,E	f	20 30 ...	...	...	...	
Feb. 22	N,E	eP	08 13 53	...	...	3335	Slight.
	N,E	S	08 18 58	...	...	...	
	N,E	L	08 23 00	...	...	...	
	N	Mn	08 26 50	23	12	...	
	E	Mn	08 27 00	17	8	...	
	N	F	09 21 ...	...	...	...	
	E	F	09 27 ...	...	...	...	
Feb. 24	N,E	iP	06 34 35	...	...	7200	Moderate.
	N,E	iS	06 43 23	...	...	...	Epc : 21° N., 145°E., (U. S. C. G. S.) Marianne Archipelago.
	N,E	L	06 55 43	...	...	...	
	N	Mn	07 02 35	22	30	...	
	E	Mn	07 03 16	21	54	...	
	N	F	10 49 ...	...	...	...	
	E	F	10 33 ...	...	...	...	
Feb. 24	N	e	15 24 ...	...	...	...	Tremors.
	E	e	15 29 ...	...	...	...	
	N	f	15 49 ...	...	...	...	
	E	f	15 52 ...	...	...	...	
Feb. 25	N,E	e	16 31 ...	...	...	...	Slight.
	N	Mn	16 54 16	11	1	...	
	E	Mn	16 59 16	11	1	...	
	N	F	17 26 ...	...	...	...	
	E	F	17 34 ...	...	...	...	
Feb. 26	N	e	14 48 ...	...	...	...	Tremors.
	E	e	14 51 ...	...	...	...	
	N	f	15 06 ...	...	...	...	
	E	f	15 11 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1934.							
Feb. 27	E	e	21 42 54	...	...	...	Slight. Distant.
	N	i	21 52 18	...	...	...	
	E	i	21 52 17	...	...	...	
	E	i	21 53 35	...	...	...	
	N	i	21 53 38	...	...	...	
	E	i	22 02 18	...	...	...	
	N	F	22 23 ...	...	...	...	
	E	F	22 34 ...	...	...	...	
Feb. 28	N,E	eP	14 33 57	...	...	9250	Moderate.
	E	PR_1	14 37 16	...	...	...	Epc : 7° S., 151° E., New Britain Islands. (Pacific).
	E	PR_2	14 39 07	...	...	...	
	N,E	S	14 44 18	...	...	...	
	N,E	PS	14 45 12	...	...	...	
	N	Mn	15 10 05	25	35	...	
	E	Mn	15 12 38	21	22	...	
	N	F	17 37 ...	...	...	...	
	E	F	18 24 ...	...	...	...	
Feb. 28	N	i	22 26 56	...	...	...	Probably seismic.
	N	f	22 48 ...	...	...	...	
Mar. 1	E	i	19 53 19	...	...	...	Slight. Distant.
	N	e	19 56 ...	...	...	...	
	N	e	20 03 19	...	...	...	
	E	e	20 08 30	...	...	...	
	N	F	20 58 ...	...	...	...	
	E	F	21 50 ...	...	...	...	
Mar. 1-2	N,E	iP^1	22 04 48	...	...	16110	Slight.
	E	PR_1	22 08 05	...	...	...	Epc : Chilli, 39° 7 S. 72°5 W. (J. S. A. L-waves poorly developed).
	N,E	$\overline{ScPcPcS}$	22 14 44	...	...	...	
	E	PPS	22 20 35	...	...	...	
	N,E	SR_1	22 26 35	...	...	...	
	E	Mn	23 02 35	16	3	...	
	N	F	00 02 ...	...	...	...	
	E	F	00 50 ...	...	...	...	
Mar. 2	E	i	19 00 06	...	...	...	Small movements, probably seismic.
	E	Mn	19 05 32	...	...	...	
	E	F	19 40 ...	...	...	...	
Mar. 3	N,E	e	00 45 ...	...	...	...	Tremors.
	N	f	01 01 ...	...	...	...	
	E	f	01 10 ...	...	...	...	
Mar. 3	N,E	iP	16 10 43	...	...	2420	Slight.
	N,E	iS	16 14 33	...	...	...	
	N,E	eL	16 17 ...	...	...	...	
	N	F	17 36 ...	...	...	...	
	E	F	17 13 ...	...	...	...	

TABLE D 2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	μ	Km.	
March 4	N	e	06 12 ...	...	...	...	Slight. Distant.
	E	e	06 12 01	...	...	...	
	N.E	e	06 19 24	...	...	...	
	N	F	06 35 ...	...	...	...	
	E	F	06 42 ...	...	...	...	
Mar. 4	E	eP	11 29 23	...	...	8090	Slight.
	E	iS	11 38 53	...	...	...	
	E	Mn	12 03 38	15	8	...	
	E	F	13 00 ...	...	...	...	
Mar. 5	N,E	eP	12 C0 49	...	...	12780	Great.
	N	eP^1	12 04 31	...	...	...	Epc : 42° ·7 S., 173° ·7 E. (J. S. A.).
	E	eP^1	12 04 39	...	...	...	New Zealand.
	N,E	PR_1	12 05 39	...	...	...	
	E	PR_2	12 08 16	...	...	...	
	N,E	Sc. PcS.	12 11 32	...	...	...	
	E	eS	12 13 31	...	...	...	
	N,E	PS	12 15 08	...	...	...	
	N,E	SR	12 21 50	...	...	...	
	N,E	SR_2	12 26 16	...	...	...	
	N,E	eL	12 41 ...	...	...	...	
	N	Mn	12 52 16	17	148	...	
	E	Mn	12 49 46	23	279	...	
	N	F	16 48 ...	...	...	...	
	E	F	16 39 ...	...	...	...	
Mar. 6	N	e	15 04 25	...	...	...	Slight. Distant.
	E	i	15 04 25	...	...	...	
	N	Mn	15 25 02	22	4	...	
	E	Mn	15 25 04	22	4	...	
	N	F	15 49 ...	...	...	...	
	E	F	16 08 ...	...	...	...	
Mar. 7	N,E	e	16 13 ...	...	...	...	Tremors.
	N	f	16 25 ...	...	...	...	
	E	f	16 24 ...	...	...	...	
Mar. 8	N	Mn	00 29 ...	...	...	...	Seismic activity.
	E	Mn	00 15 ...	...	...	...	
Mar. 8	N	e	23 11 ...	...	...	...	Tremors.
	N	f	23 45 ...	...	...	...	
Mar. 9	N,E	e	14 23 05	...	...	...	Slight. Distant.
	N	Mn	14 44 ...	...	...	...	
	E	Mn	14 48 ...	...	...	...	
	N	F	15 12 ...	...	...	...	
	E	F	15 00 ...	...	...	...	
Mar. 10	N,E	i	02 12 00	...	...	...	Very feeble. Near.
Mar. 11	N,E	i	19 20 50	...	...	...	Slight. Probably distant.
	N	Mn	19 28 52	8	4	...	
	E	Mn	19 29 24	7	1	...	
	N	F	19 48 ...	...	...	...	
	E	F	19 44 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	μ	Km.	
March 12	N	e	15 25 54	...	...	...	Slight. Distant.
	E	e	15 26 06	...	...	...	
	N	Mn	16 23 24	16	7	...	
	N	F	17 43 ...	...	...	...	
	E	F	16 54 ...	...	...	...	
Mar. 12	N	e	19 24 ...	...	...	...	Tremors.
	N	f	19 47 ...	...	...	...	
Mar. 13	N	e	13 25 08	...	...	...	Slight. Distant.
	E	e	13 25 11	...	...	...	
	N	Mn	14 22 50	15	3	...	
	N	F	16 27 ...	...	...	...	
	E	F	15 52 ...	...	...	...	
Mar. 14	N,E	e	10 46 ...	...	...	...	Tremors.
	N	e	11 27 ...	...	...	...	
	E	f	11 26 ...	...	...	...	
Mar. 15	E	e	11 05 49	...	...	...	Slight. Distant.
	N	e	11 06 19	...	...	...	
	N,E	i	11 15 56	...	...	...	
	N	Mn	11 49 19	19	5	...	
	E	Mn	11 50 37	20	6	...	
	N	F	12 50 ...	...	...	...	
	E	F	13 49 ...	...	...	...	
Mar. 16	E	iP	14 25 21	...	...	8145	Slight.
	N	iP	14 25 25	...	...	...	Epc : 6° S., 142° E. British New Guinea.
	N	iS	14 34 55	...	...	...	
	E	eS	14 34 56	...	...	...	
	N	PS	14 35 55	...	...	...	
	E	PS	14 35 51	...	...	...	
	N	F	15 36 ...	...	...	...	
	E	F	15 55 ...	...	...	...	
Mar. 16	N	e	17 23 47	...	...	...	Slight. Distant.
	E	e	17 23 45	...	...	...	
	N	Mn	17 50 06	...	...	...	
	N	F	18 30 ...	...	...	...	
	E	F	18 39 ...	...	...	...	
Mar. 18	N,E	iP	04 44 52	...	...	7845	Slight.
	N,E	eS	04 54 09	...	...	...	Epc: 47° N., 153° E., Kurile Islands.
	N,E	iPS	04 54 50	...	...	...	
	N	eL	05 09 ...	...	...	...	
	E	eL	05 08 ...	...	...	...	
	E	Mn	05 19 24	17	9	...	
	N	F	05 41 ...	...	...	...	
	E	F	05 59 ...	...	...	...	
Mar. 18	N,E	e	07 29 ...	...	...	...	Tremors.
	N	f	08 14 ...	...	...	...	
	E	f	07 52 ...	...	...	...	

TABLE D 2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1934.							
Mar. 18	N,E	i	12 49 41	...	...	...	Very feeble. Near
	N	F	13 05 ...	...	...	...	
	E	F	13 19 ...	...	...	...	
Mar. 18	E	e	22 24 ...	...	...	...	Very feeble. Near.
	N,E	e	22 27 52	...	...	...	
	E	F	22 44 ...	...	...	...	
	N	F	22 45 ...	...	...	...	
Mar. 18	N,E	e	22 48 57	...	...	...	Feeble. Near.
	N,E	i	22 52 55	...	...	...	
	N	F	23 12 ...	...	...	...	
	E	F	23 21 ...	...	...	...	
Mar. 19	N,E	iP	03 33 06	...	...	2345	Slight.
	N,E	iS	03 36 59	...	...	...	
	E	F	04 26 ...	...	...	...	
	N	F	04 27 ...	...	...	...	
Mar. 20	N,E	P	02 50 31	...	...	8545	Slight.
	E	PR_1	02 53 30	...	...	...	Epc: 7° S., 145° E., British New Guinea.
	N,E	eS	03 00 22	...	...	...	
	N	PS	03 00 56	...	...	...	
	N,E	SR_1	03 05 31	...	...	...	
	E	Mn	03 27 26	18	3	...	
	N	F	04 41 ...	...	...	...	
	E	F	05 38 ...	...	...	...	
Mar. 20-21	E	e	20 46 ...	...	...	...	Seismic activity.
	E	f	01 34 ...	...	...	...	
Mar. 22	N	Mn	21 00 16	...	...	...	Seismic activity.
	E	Mn	21 00 19	...	...	...	
Mar. 23	E	Mn	08 38 01	...	...	...	Seismic activity.
	N	Mn	08 38 13	...	...	...	
Mar. 24	N,E	P	12 17 37	...	...	10220	Moderate.
	E	PR_1	12 21 16	...	...	...	Epc: 9°·3 S., 161°·5 E. (U. S. C. G. S.) Solomon Islands.
	E	PR_2	12 23 19	...	...	...	
	E,N	ScPcS	12 28 01	...	...	...	
	N,E	iS	12 28 58	...	...	...	
	N,E	iPS	12 29 58	...	...	...	
	N,E	PPS	12 30 35	...	...	...	
	N,E	SR_1	12 34 50	...	...	...	
	E	SR_2	12 38 48	...	...	...	
	E	eL	12 48 ...	...	...	...	
	N	eL	12 50 ...	...	...	...	
	E	Mn	13 10 35	18	14	...	
	N	Mn	13 13 13	...	...	...	
	N	F	16 17 ...	...	...	...	
	E	F	16 52 ...	...	...	...	
Mar. 25	N	e	12 50 ...	...	...	...	Tremors.
	E	e	12 48 ...	...	...	...	
	E	f	13 05 ...	...	...	...	
	N	f	13 09 ...	...	...	...	
Mar. 26	N,E	e	03 07 35	...	...	...	Slight. Near.
	E	Mn	03 09 05	...	...	...	
	N	Mn	03 10 30	...	...	...	
	E	F	03 18 ...	...	...	...	
	N	F	03 23 ...	...	...	...	
Mar. 29	N,E	iP	20 15 09	...	...	5010	Slight. Reported to be destructive in the Balkans. L-waves not well-marked.
	N	i	20 17 12	...	...	...	
	N,E	iS	20 21 53	...	...	...	
	N	F	20 44 ...	...	...	...	
	E	F	20 52 ...	...	...	...	
Mar. 31	E	Mn	18 44 11	...	...	...	Seismic activity.
	N	Mn	18 44 23	...	...	...	
Apr. 2	N	i	05 16 58	...	...	...	Feeble. Distant.
	E	Mn	05 33 14	22	2	...	
Apr. 2	N,E	e	10 51 ...	...	...	...	Tremors.
	N,E	f	11 09 ...	...	...	...	
Apr. 3	E	e	08 43 ...	...	...	...	Slight. Distant.
	N	e	08 44 ...	...	...	...	
	N	f	09 41 ...	...	...	...	
	E	f	10 08 ...	...	...	...	
Apr. 3	E	Mn	19 10 19	...	...	...	Seismic activity.
Apr. 3	N,E	iP	22 48 23	...	...	6880	Slight.
	N,E	iS	22 51 51	...	...	...	Epc: 23°·5 N., 138°·5 E. Southwest of Volcano Islands (Pacific).
	N	F	23 33 ...	...	...	...	
	E	F	23 35 ...	...	...	...	
Apr. 4	N	e	21 05 ...	...	...	...	Tremors.
	E	e	21 06 ...	...	...	...	
	E	f	21 14 ...	...	...	...	
	N	f	21 17 ...	...	...	...	
Apr. 5	N,E	e	10 46 24	...	...	...	Slight. Near.
	N,E	i	10 48 32	...	...	...	
	E	Mn	10 51 01	9	3	...	
	N	Mn	10 51 19	7	5	...	
	N	F	11 07 ...	...	...	...	
	E	F	11 13 ...	...	...	...	
Apr. 5	N,E	e	11 26 ...	...	...	...	Tremors.
	N	f	11 33 ...	...	...	...	
	E	f	11 35 ...	...	...	...	
Apr. 6	N,E	P	19 19 57	...	...	6690	Slight.
	N,E	eS	19 28 17	...	...	...	Epc: 37°·1 N., 141°·5 E. Tokyo. (Japan Sea).
	N,E	PS	19 28 49	...	...	...	
	N,E	SR_1	19 32 22	...	...	...	
	N	eL	19 39 ...	...	...	...	
	E	eL	19 40 ...	...	...	...	
	N	F	20 15 ...	...	...	...	
	E	F	20 40 ...	...	...	...	

TABLE D 2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1934.							
Apr. 8	N,E	i	20 59 45	...	...	...	Feeble. Near.
	N	i	21 07 ...	...	...	...	Felt locally at Bhagalpur and Raxaul.
	E	f	21 08 ...	...	...	...	
Apr. 9	N	e	15 49 50	...	...	...	Slight. Very distant.
	E	e	15 50 03	...	...	...	
	E	Mn	16 51 05	23	4	...	
	N	Mn	16 51 10	21	4	...	
	N	F	17 52 ...	...	...	...	
	E	F	18 03 ...	...	...	...	
Apr. 10	E	e	06 53 ...	...	...	...	Tremors.
	E	f	07 12 ...	...	...	...	
Apr. 10	N,E	iP	10 31 52	...	...	5400	Moderate.
	N,E	PR_1	10 33 44	...	...	...	Epc: 6° S., 114·°5 E.
	N,E	S	10 38 59	...	...	...	South of Borneo.
	N,E	PS	10 39 24	...	...	...	
	E	SR_2	10 43 31	...	...	...	
	N,E	L	10 46 44	...	...	...	
	E	Mn	10 53 49	15	12	...	
	N	Mn	10 55 23	15	10	...	
	N	F	12 34 ...	...	...	...	
	E	F	12 43 ...	...	...	...	
Apr. 11	N	e	08 05 ...	...	...	...	Tremors.
	N	f	08 35 ...	...	...	...	
Apr. 11	N	e	10 03 ...	...	...	...	Tremors.
	E	e	10 07 ...	...	...	...	
	N	f	10 27 ...	...	...	...	
	E	f	10 31 ...	...	...	...	
Apr 11	E	e	21 26 19	...	...	11110	Slight. Epc: 12° S., 167° E., Charlotte Islands.
	E	PR_1	21 29 25	...	...	...	
	E	PR_2	21 31 45	...	...	...	
	N,E	ScPcS	21 36 00	...	...	...	
	N,E	ScPc PcS	21 36 46	...	...	...	
	N,E	S	21 37 06	...	...	...	
	N,E	SR_1	21 44 14	...	...	...	
	N	F	23 03 ...	...	...	...	
	E	F	23 34 ...	...	...	...	
Apr. 12	N,E	eP	03 28 58	...	...	4920	Slight. Epc: 17° N., 118° E., West of Philippine Islands.
	N,E	S	03 35 39	...	...	...	
	N	Mn	03 48 19	14	3	...	
	E	Mn	03 52 07	15	3	...	
	N	F	04 18 ...	...	...	...	
	E	F	04 33 ...	...	...	...	
Apr. 12	N,E	eP	09 16 00	...	...	2690	Slight. Epc: 27° N., 99·°5 E., North Burma.
	N,E	S	09 20 21	...	...	...	
	N, E	L	09 24 ...	...	...	...	
	N	Mn	09 29 26	8	3	...	
	E	Mn	09 32 16	10	2	...	
Apr. 12	N	F	10 04 ..	...	...	...	
	E	F	10 16 ...	...	...	...	
Apr. 13	N,E	e	04 46 38	...	...	...	Feeble. Near.
	N,E	i	04 48 10	...	...	...	
	N	F	04 58 ...	...	...	...	
	E	F	04 59 ...	...	...	...	
Apr. 13	N,E	e	19 54 ...	...	...	...	Feeble. Distant.
	N	F	20 17 ...	...	...	...	
	E	F	20 18 ...	...	...	...	
Apr. 13	N.E	e	22 45 ...	...	...	...	Very feeble. Near.
	N,E	f	22 51 ...	...	...	...	Felt locally at Darbhanga.
Apr. 13	N	e	23 10 ...	...	...	...	Very feeble. Near.
	E	e	23 11 ...	...	...	...	
	N	f	23 16 ...	...	...	...	
	E	f	23 18 ...	...	...	...	
Apr. 14	N	eP	01 33 27	...	...	1145	Slight. Epc: 29° N., 75·5 E. South-East Punjab.
	N,E	S	01 35 34	...	...	...	Felt locally at Delhi.
	N,E	S	01 36 23	...	...	...	
	N	F	01 48 ...	...	...	...	
	E	F	01 49 ...	...	...	...	
Apr. 15	N,E	i	10 43 41	...	...	...	Feeble. Distant.
	N,E	e	10 51 55	...	...	...	
	N,E	F	11 24 ...	...	...	...	
Apr. 15	N,E	Mn	15 42 23	...	...	...	Seismic activity.
Apr. 15-16.	N,E	P	22 24 36	...	...	5720	Beginning of P in minute break.
	N,E	PR_1	22 26 38	...	...	...	Moderate. Epc: 7° N., 124° E., South of Mindanao Island.
	N,E	iS	22 32 01	...	...	...	
	N,E	iPS	22 32 36	...	...	...	
	N	SR_1	22 35 31	...	...	...	
	N,E	SR_2	22 37 06	...	...	...	
	N,E	L	22 40 29	...	...	...	
	E	Mn	22 50 14	18	88	...	
	N	Mn	22 53 18	16	41	...	
	N	F	02 15 ...	...	...	...	
	E	F	02 40 ...	...	...	...	
Apr. 16	N,E	eP	04 08 41	...	...	6135	Slight.
	E	PR_1(?)	04 10 50	...	...	...	Epc: 7°·5 N., 127° E., Mindanao Island.
	N,E	eS	04 16 29	...	...	...	
	N,E	PS	04 17 12	...	...	...	
	E	SR_1	04 20 41	...	...	...	
	E	eL	04 26 ...	...	...	...	
	N	Mn	04 33 58	...	...	...	
	E	Mn	04 34 11	16	3	...	
	N	F	05 20 ...	...	...	...	
	E	F	05 25 ...	...	...	...	

TABLE D 2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	μ	Km.	
Apr. 16	N	e	13 48 53	...	...	...	Slight. Distant.
	N,E	e	13 55 45	...	...	...	
	N	Mn	14 09 15	12	2	...	
	E	Mn	14 12 16	15	1	...	
	N	F	14 33 ...	...	...	...	
	E	F	14 36 ...	...	...	...	
Apr. 19	N,E	i	16 23 02	...	...	...	Slight. Distant.
	N,E	i	16 30 40	...	...	...	
	N,E	i	16 33 16	...	...	...	
	N	F	16 56 ...	...	...	...	
	E	F	17 02 ...	...	...	...	
Apr. 19	N,E	e(?)	23 29 05	...	...	...	Slight. Near.
	N	Mn	23 37 19	10	2	...	
	E	Mn	23 36 12	11	2	...	
Apr 19-20.	N,E	i	23 50 42	...	...	...	Probably feeble, near shock.
	N	F	23 59 ...	...	...	...	Seismic activity.
	E	F	00 10 ...	...	...	...	Tremors.
Apr. 21	N,E	Mn	06 52 28	...	...	...	
Apr. 23	N	e	04 51 ...	...	...	...	
	E	e	04 53 ...	...	...	...	
	N	f	05 04 ...	...	...	...	
	E	f	05 07 ...	...	...	...	
Apr. 24	E	iP	02 09 28	...	...	6665	Slight.
	E	PR_1	02 11 51	...	...	...	N-beginning lost in shifting paper.
	E	PR_2	02 12 51	...	...	...	Epc: 4° S., 128° E.
	N,E	iS	02 17 50	...	...	...	Banda Sea.
	N	F	02 45 ...	...	...	...	
	E	F	03 03 ...	...	...	...	
Apr. 24	E	e	17 57 ...	...	...	...	Feeble. Distant.
	N	e	18 00 ...	...	...	...	
	N,E	f	19 27 ...	...	...	...	
Apr. 24	E	e	20 36 ...	...	...	...	Tremors.
	N	e	20 37 ...	...	...	...	
	N,E	f	20 47 ...	...	...	...	
Apr. 25	N,E	i	05 21 36	...	...	...	Slight.
	N	i	05 22 28	...	...	...	
	E	F	05 37 ...	...	...	...	
	N	F	05 39 ...	...	...	...	
Apr. 25	N	e	07 46 ...	...	...	...	Tremors.
	N	f	08 18 ...	...	...	...	
Apr. 26	E	e	05 49 ...	...	...	...	Feeble. Very distant.
	N	e	05 55 ...	...	...	...	
	E	Mn	06 35 03	...	...	...	
	N	Mn	06 36 21	...	...	...	
	N	F	07 14 ...	...	...	...	
	E	F	07 15 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	μ	Km.	
Apr. 26	N,E	e	08 16 ...	...	...	...	Feeble. Very distant.
	E	Mn	08 55 13	...	...	...	
	N	Mn	09 02 13	...	...	...	
	E	F	09 48 ...	...	...	...	
	N	F	09 49 ...	...	...	...	
Apr. 26	N	e	13 48 59	...	...	...	Slight. Distant.
	E	i					
	N,E	i	13 56 06	...	...	...	
	E	Mn	14 17 23	19	5	...	
	N	F	14 47 ...	...	...	...	
	E	F	15 05 ...	...	...	...	
Apr. 26	N	i	21 24 40	...	...	...	Feeble.
	N	F	22 54 ...	...	...	...	
Apr. 27	N,E	e	21 05 32	...	...	...	Slight. Very distant.
	N,E	i	21 11 39	...	...	...	
	N	Mn	21 58 54	16	4	...	
	E	Mn	21 50 48	17	3	...	
	N	F	23 14 ...	...	...	...	
	E	F	Uncertain due to wandering of zero.				
Apr. 28	N	e	15 20 27	...	...	...	Slight. Distant.
	E	i					
	N	i	15 30 06	...	...	...	
	E	i	15 30 31	...	...	...	
	N	F	16 33 ...	...	...	...	
	E	F	16 35 ...	...	...	...	
Apr. 30	N	e	12 30 .	...	...	...	Tremors.
	E	e	12 31 ...	...	...	...	
	N	f	12 40 ...	...	...	...	
	E	f	12 42 ...	...	...	...	
Apr. 30	N,E	e	15 31	...	...	...	Tremors.
	N		15 47 ...	...	...	...	
	E		15 49 ...	...	...	...	
May 1	N,E	iP	03 42 56	...	...	811	Slight.
	N,E	P*	03 43 17	...	...	...	
	N,E	$\bar{P}$	03 43 43	...	...	...	Epc: 25°·5 N.,69° E. Sind. Felt locally at Larkana, Dadu, Mehar, Sehwan and Kakar.
	N,E	S	03 44 26	...	...	...	
	N,E	$\bar{S}$	03 45 15	...	...	...	
	N	Mn	03 46 12	...	...	...	
	E	Mn	03 46 15	6	10	...	
	N	F	04 24 ...	...	...	...	
	E	F	04 39 ...	...	...	...	
May 1	N,E	iP	07 10 45	...	...	2300	Slight.
	N,E	PR_1	07 11 18	...	...	...	Epc: 10° N., 93° E.
	N,E	S	07 14 35	...	...	...	South of Andaman Islands.
	N,E	SR_1	07 15 18	...	...	...	
	N,E	L	07 16 18	...	...	...	
	E	Mn	07 17 39	8	13	...	
	N	Mn	07 18 07	6	16	...	

TABLE D 2—*cont.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1934.							
May 1	N	F	08 46 ...	...	...	...	
	E	F	08 56 ...	...	...	...	
May 2	N	e	04 50 ...	...	...	...	Tremors.
	E	e	04 51 ...	...	...	...	
	N	f	05 04 ...	...	...	...	
	E	f	05 08 ...	...	...	...	
May 3	N,E	eP	01 41 46	...	...	7180	Slight.
	N,E	eS	01 50 33	...	...	...	Epc: 28°·5 N., 141°·5 E., North of Bonin Islands (Pacific).
	E	PS	01 51 01	...	...	...	
	E	SR_1	01 54 46	...	...	...	
	E	eL	02 03 ..	...	...	...	
	E	Mn	02 12 19	20	4	...	
	N	Mn	02 12 22	...	...	...	
	N	F	03 30 ...	...	...	...	
	E	F	03 42 ...	...	...	...	
May 4	N,E	P	04 49 22	...	...	10380	Great. Epc: Alaska 61° N., 145°·1 W. (U.S.A.) 61 N. 146° W. (U. S. C. G. S.)
	N,E	PR_1	04 53 04	...	...	...	
	N,E	PR_2	04 55 09	...	...	...	
	N,E	ScPcS	04 59 50	...	...	...	
	N,E	ScPc PcS	05 00 26	...	...	...	
	N,E	S	05 00 39	...	...	...	
	N,E	PS	05 01 37	...	...	...	
	N,E	PPS	05 02 20	...	...	...	
	N,E	SR_1	05 07 04	...	...	...	
	N,E	eL	05 20 28	...	...	...	
	E	Mn	05 30 48	23	66	...	
	N	Mn	05 35 30	19	53	...	
	N	F	07 56 ..	...	...	...	
	E	F	08 20 ...	...	...	...	
May 5	N,E	e	14 52 0	...	...	...	Slight. Distant.
	N,E	e	14 57 39	...	...	...	
	N	Mn	15 34 24	...	...	...	
	E	Mn	15 35 09	26	5	...	
	E	F	16 08 ..	...	...	...	
	N	F	16 10 ...	...	...	...	
May 7	E	e	02 11 54	...	...	...	Slight. Distant.
	E	Mn	02 29 59	...	...	...	
	E	F	02 48 ..	...	...	...	
May 7	E	e	04 23 29	...	...	...	Slight. Distant.
	E	Mn	04 41 47	...	...	...	
	N	Mn	04 41 54	...	...	...	
	E	F	05 04 ..	...	...	...	
May 8	E	Mn	20 21 32	...	...	...	Seismic activity.
May 9	N,E	i	16 24 55	...	...	...	Slight. Distant.
	E	i	16 34 06	...	...	...	
	E	Mn	16 58 20	19	3	...	
	N	Mn	16 58 37	15	3	...	
1934.							
May 9	N	F	17 36 ...	...	...	...	
	E	F	17 50 ...	...	...	...	
May 9	N,E	e	19 06 ...	...	...	...	Tremors.
	N	f	19 19 ...	...	...	...	
	E	f	19 26 ...	...	...	...	
May 11	E	e	18 24 ...	...	...	...	Tremors.
	N	e	18 35 ...	...	...	...	
	N,E	f	18 59 ...	...	...	...	
May 12	N,E	eP	20 32 32	...	...	2780	Slight.
	E	PR_2	20 33 16	...	...	...	Epc: 10° N., 96°·5 E., Andaman Sea.
	N,E	iS	20 36 59	...	...	...	
	N,E	SR_1	20 38 16	...	...	...	
	N,E	eL	20 40 ...	...	...	...	
	E	Mn	20 42 16	19	4	...	
	N	F	21 12 ...	...	...	...	
	N	F	21 17 ...	...	...	...	
May 13	N,E	iP	09 14 30	...	...	8990	Slight. L-waves poorly developed.
	N,E	PR_1	09 17 43	...	...	...	Epc: 4° S., 150° E. Bismark Archipelago.
	N	PR_2	09 19 39	...	...	...	
	N,E	iS	09 24 40	...	...	...	
	N,E	PS	09 25 24	...	...	...	
	N,E	SR_1	09 30 14	...	...	...	
	N,E	F	11 02 ...	...	...	...	
May 14	N,E	eP	22 26 11	...	...	10500	Slight.
	N,E	PR_1	22 29 59	...	...	...	Epc: 56°·2 N., 150°·7 W. (J. S. A).
	N,E	ScPcS	22 36 41	...	...	...	South of Alaska.
	N,E	ScPc PcS	22 37 18	...	...	...	
	N,E	S	22 37 26	...	...	...	
	N,E	PS	22 38 42	...	...	...	
	N	SR_1	22 43 56	...	...	...	
	E	Mn	23 03 49	30	13	...	
	N	F	23 39 ...	...	...	...	
	E	F	23 46 ...	...	...	...	
May 17	N,E	e	10 39 ...	...	...	...	Tremors.
	E	f	10 56 ...	...	...	...	
	N	f	11 01 ...	...	...	...	
May 17	N E	e	22 21 ...	...	...	...	Tremors.
	N	f	22 47 ...	...	...	...	
	E	f	22 50 ...	...	...	...	
May 19	N	Mn	02 08 30	...	...	...	Seismic activity.
	E	Mn	02 07 34	19	3	...	
May 19	E	e	10 53 ...	...	...	...	Tremors.
	N	e	10 55 ...	...	...	...	
	E	f	11 34 ...	...	...	...	
	N	f	11 36 ...	...	...	...	

TABLE D 2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1934.							
May 21	E	Mn	05 04 51	...	...	...	Seismic activity.
	N	Mn	05 05 45	...	...	...	
May 22	E	eP	01 27 05	...	...	2610	Slight.
	E	iS	01 31 20	...	...	...	Epc : 9° N., 94° E., South of Andaman Islands. N—Beginning lost in shift ing record.
	N,E	SR_1	01 32 12	...	...	...	
	E	eL	01 34 ...	...	...	...	
	N	F	03 08 ...	...	...	...	
	E	F	03 13 ...	...	...	...	
May 23	N,E	i	23 21 03	...	...	...	Feeble. Near.
	N,E	e	23 24 02	...	...	...	
	N	f	23 37 ...	...	...	...	
	E	f	23 39 ...	...	...	...	
May 27	N,E	eP	13 32 40	...	...	3155	Slight.
	N,E	eS	13 37 34	...	...	...	
	N,E	SR_1	13 38 56	...	...	...	
	E	Mn	13 43 22	12	3	...	
	N	Mn	13 46 29	7	2	...	
	N	F	14 26 ...	...	...	...	
	E	F	14 27 ...	...	...	...	
May 30	E	i	23 15 07	...	...	...	Feeble. Near.
	N	e	23 15 37	...	...	...	
	N	F	23 37 ...	...	...	...	
	E	F	23 44 ...	...	...	...	
June 1	N,E	e	19 30 51	...	...	...	Feeble Near.
	N,E	i	19 32 15	...	...	...	
	N,E	f	19 38 ...	...	...	...	
June 2	N,E	iP	05 59 15	...	...	2310	Moderate.
	N,E	iS	06 03 06	...	...	...	Epc: 26°·5 N., 93°·5 E. Northeast Assam.
	N,E	SR_1	06 03 51	...	...	...	
	N,E	L	06 04 52	...	...	...	
	N	Mn	06 06 55	7	17	...	
	E	F	06 57 ...	...	...	...	
	N	F	07 09 ...	...	...	...	
June 2	N	P	13 54 21	...	...	8110	Slight.
	N	PR_2	13 58 47	...	...	...	Epc: 65° N., 20° W. (J.S.A.) Iceland.
	N,E	S	14 03 46	...	...	...	
	N,E	PS	14 04 34	...	...	...	
	N,E	SR_1	14 08 38	...	...	...	
	N	Mn	14 27 42	24	8	...	
	E	Mn	14 29 49	18	5	...	
	N	F	15 16 ...	...	...	...	
	E	F	15 28 ...	...	...	...	
June 2	N,E	i	17 09 14	...	...	...	Feeble. Distant.
	N,E	i	17 09 48	...	...	...	
	N,E	e	17 20 07	...	...	...	
	N,E	Mn	17 44 35	...	...	...	
	N	F	17 56 ...	...	...	...	
	E	F	17 58 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1934.							
June 2	N	Mn	21 43 48	...	...	...	Seismic activity.
June 3	N,E	i	16 39 45	...	...	...	Seismic activity.
June 3	N	e	21 13 ...	...	...	...	Feeble.
	E	i	21 13 10	...	...	...	
	E	i	21 15 48	...	...	...	
	E	F	22 12 ...	...	...	...	
	N	F	21 41 ...	...	...	...	
June 4	N,E	P	06 00 09	...	...	1890	Slight.
	N,E	iS	06 03 25	...	...	...	
	N,E	SR_1	06 04 07	...	...	...	
	N,E	L	06 04 37	...	...	...	
	E	F	06 17 ...	...	...	...	
	N	F	06 19 ...	...	...	...	
June 5	E	i	11 36 46	...	...	...	Feeble. Near.
	E	i	11 37 41	...	...	...	
	N	Mn	11 38 20	...	...	...	
June 5	N,E	e	13 16 01	...	...	...	Feeble. Near.
	E	Mn	13 17 57	...	...	...	
	N	Mn	13 18 13	...	...	...	
	N,E	F	14 31 ...	...	...	...	
June 6	N	e	04 22 ...	...	...	...	Tremors.
	E	e	04 23 ...	...	...	...	
	N	f	04 48 ...	...	...	...	
	E	f	04 56 ...	...	...	...	
June 6	N	e	07 00 ...	...	...	...	Tremors.
	E	e	07 02 ...	...	...	...	
	N	f	07 27 ...	...	...	...	
	E	f	07 29 ...	...	...	...	
June 7	N	Mn	16 54 23	...	...	...	Seismic activity.
	E	Mn	16 55 30	...	...	...	
June 8	E	e	05 49 ...	...	...	...	Tremors.
	N	e	05 56 ...	...	...	...	
	N	f	06 20 ...	...	...	...	
	E	f	06 23 ...	...	...	...	
June 9	N,E	P	13 10 30	...	...	8245	Slight.
	N,E	iS	13 20 08	...	...	...	
	N,E	PS	13 20 44	...	...	...	Epc : 6° S., 143° E., British New Guinea.
	N,E	SR_1	13 25 05	...	...	...	
	N	SR_2	13 27 52	...	...	...	
	N	F	15 01 ...	...	...	...	
	E	F	15 21 ...	...	...	...	
June 11	N,E	e	13 44 ...	...	...	...	Tremors.
	E	f	13 50 ...	...	...	...	
	N	f	13 56 ...	...	...	...	
June 13	N,E	P	02 01 36	..	..	7065	Slight.
	N,E	PR_1	02 04 05	...	..	..	

TABLE D 2—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1934.							
June 13	N,E	S	02 10 17	...	...	...	Epc: 43°·8 N., 146°·8 E. (Tokyo), Japan.
	N,E	PS	02 10 40	...	...	...	
	N,E	SR_1	02 14 38	...	...	...	
	N,E	SR_2	02 16 41	...	...	...	
	N,E	eL	02 22 ...	...	...	...	
	N	F	03 16 ...	...	...	...	
	E	F	03 24 ...	...	...	...	
June 13-14.	N,E	iP	22 13 24	...	...	1445	Great.
	N,E	ePR_1	22 13 37	...	...	...	Epc: 30° N., 64°E. South Afghanistan.
	N,E	P* (?)	22 14 12	...	...	...	Felt locally at Dera Ismail Khan, Gwadar, Dada and Rawalpindi.
	N,E	eF	22 14 46	...	...	...	
	N,E	iS	22 15 59	...	...	...	
	N,E	eSR_1	22 16 25	...	...	...	
	N	L	22 17 08	...	...	...	
	N	Mn	22 20 01	13	134	...	
	E	Mn	22 18 31	14	199	...	
	N	F	00 24 ...	...	...	...	
	E	F	00 21 ...	...	...	...	
June 16	N	Mn	20 22 14	...	...	...	Very feeble. Near.
	E	Mn	20 22 27	...	...	...	Felt locally at Gauhati, Salona, Cooch Behar, Dhubri and Shillong.
June 18	N,E	Mn	10 10 02	...	...	...	Seismic activity.
June 20	N,E	P	09 20 07	...	...	2565	Slight.
	N,E	PR_1	09 20 34	...	...	...	
	N,E	S	09 24 18	...	...	...	
	N,E	SR_1	09 25 15	...	...	...	
	E	L	09 26 24	...	...	...	
	N,E	F	Mixed up with microseisms.				
June 23	N	eP	05 25 00	...	...	2500	Moderate.
	N	iS	05 29 06	...	...	...	
	N	iL	05 31 10	...	...	...	Epc: 32° N., 92°·5 E. (Tibet).
	N	Mn	05 33 10	10	36	...	
	N	F	Mixed with up microseisms.				
June 24	N,E	P	06 19 25	...	...	15480	Moderate.
	E	PR_1	06 22 13	...	...	...	Epc: 23° S., 68° W (U. S. C. G. S.) Argentine.
	E	ScPcP	06 22 41	...	...	...	
	N,E	ScPc PcS	06 28 44	...	...	...	
	E	PScPcS	06 32 21	...	...	...	
	E	PPS	06 36 13	...	...	...	
	N	SR_1	06 40 59	...	...	...	
	E	SR_1	06 41 21	...	...	...	
	E	SR_2	06 46 17	...	...	...	
	E	eL	07 08 ...	...	...	...	
	E	Mn	07 21 23	20	20	...	
	N	Mn	07 23 13	19	10	...	
	N,E	F	Masked by microseisms.				
June 25	E	Mn	16 13 59	...	...	...	Seismic activity.
	N	Mn	16 14 08	...	...	...	
June 26	E	Mn	09 16 21	...	...	...	Seismic activity.
	N	Mn	09 16 48	...	...	...	
June 29	N,E	P	08 33 54	...	...	5135	Moderate.
	N,E	PR_2	08 36 13	...	...	...	
	N,E	iS	08 40 46	...	...	...	L-Waves not well developed.
	N,E	SR_2	08 44 39	...	...	...	Epc: 1° N., 115°·5 E., Borneo.
	N,E	F	Masked by microseisms.				
June 30	N	Mn	12 52 37	...	...	...	Seismic activity.
	E	Mn	12 55 17	...	...	...	
July 3	N	Mn	09 00 51	...	...	...	Slight. Near. Felt locally at Drosh.
	E	Mn	09 00 59	...	...	...	
July 4	E	e	02 40 0	...	...	...	Tremors.
	E	f	02 56 0	...	...	...	
July 6-7	N,E	PR_1	23 09 01	...	...	12700	Slight.
	N,E	ScPc PcS	23 15 56	...	...	...	Beginning masked by microseisms.
	N,E	PS	23 18 38	...	...	...	Epc: 42° N.,126° W. (U. S. C. G. S.).
	N,E	SR_1	23 25 01	...	...	...	Pacific Ocean off southern Oregon.
	N,E	SR_2	23 29 21	...	...	...	
	N,E	eL	23 14 0	...	...	...	
	E	Mn	23 50 50	25	13	...	
	N	Mn	23 50 58	24	14	...	
	N	F	01 15 0	...	...	...	
	E	F	01 24 0	...	...	...	
July 7	E	Mn	15 42 31	...	...	...	Seismic activity.
July 12	E	Mn	10 36 13	...	...	...	Seismic activity.
July 12	N,E	e	14 35 57	...	...	...	Very feeble.
	N,E	i	14 40 42	...	...	...	
	E	Mn	14 50 34	15	2	...	
	N	Mn	14 52 04	...	...	...	
	N,E	F	Mixed up with microseisms.				
July 15	N,E	eS	02 13 35	...	...	...	Feeble.
	N,E	iL	02 15 03	...	...	...	Felt locally at Mymensingh, Dhubri, Cooch Behar, Shillong and Gauhati.
	N,E	F	Masked by microseisms.				
July 18	N,E	P	01 55 57	...	...	16380	Great.
	N,E	PR_1	01 59 20	...	...	...	Epc: 8°·2 N., 82°·5 W. (U. S. A.) Panama. Destructive at *David* city and Puerto Armuelles.
	E	PR_2	02 02 28	...	...	...	
	N,E	ScPc PcS	02 06 07	...	...	...	
	N,E	P ScPcS	02 09 35	...	...	...	
	N,E	PPS	02 12 12	...	...	...	
	N,E	SR_1	02 18 32	...	...	...	

TABLE D 2—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	μ	Km.	
July 18	N,E	SR	02 24 02	...	...	...	
	N	Mn	03 06 42	21	47	...	
	E	Mn	03 03 00	23	84	...	
	N	F	06 29 ...	...	...	...	
	E	F	06 30 ...	...	...	...	
July 18	N,E	Mn	08 42 28	...	...	...	Seismic activity.
July 18	N,E	Mn	16 46 51	...	...	...	Seismic activity.
July 18	N,E	P	17 19 16	...	...	16420	Slight.
	N,E	PR_1	17 22 44	...	...	...	Aftershock of the great Panama Earthquake of the 18th.
	N,E	PR_2	17 26 14	...	...	...	
	E	P $\overline{ScPcS}$	17 32 57	...	...	...	
	N,E	SR_1	17 41 28	...	...	...	Epc: 8°·2 N., 82°·2 W. (J. S. A.)
	N,E	SR_2	17 47 06	...	...	...	
	N	Mn	18 33 21	23	9	...	
	E	Mn	18 35 53	20	9	...	
	N	F	19 33 ...	...	...	...	
	E	F	19 43 ...	...	...	...	
July 18-19.	N,E	iP	19 53 58	...	...	10910	Great.
	E	e (?)	19 57 08	...	...	...	Epc: 16°·8 S., 168°·7 E. (J. S. A.). New Hebrides.
	N,E	$\dot{P}$ (?)	19 57 38	...	...	...	
	N,E	PR_2	20 00 06	...	...	...	
	N,E	$\overline{ScPc\ PcS}$	20 05 02	...	...	...	
	N,E	PS	20 06 38	...	...	...	
	N,E	PPS	20 07 20	...	...	...	
	N,E	SR_1	20 12 13	...	...	...	
	N,E	SR_2	20 16 09	...	...	...	
	N	eL	20 27 58	...	...	...	
	E	eL	20 37 35	...	...	...	
	E	Mn	20 41 21	21	99	...	
	N	Mn	20 45 12	19	99	...	
	N	F	00 10 ...	...	...	...	
	E	F	00 11 ...	...	...	...	
July 19	E	e	00 20 21	...	...	...	Slight. Very distant.
	E	i	00 31 02	...	...	...	
	E	Mn	00 57 30	...	...	...	
	E	F	Mixed up with the following shock.				
July 19	N,E	P	01 37 58	...	...	6655	Moderate.
	N,E	PR_1	01 40 19	...	...	...	
	E	PR_2	01 41 22	...	...	...	Epc: 1° S., 129°·5 E.
	N,E	iS	01 46 16	...	...	...	Southeast of Malucca Islands.
	N,E	PS	01 46 47	...	...	...	
	E	SR_1	01 50 22	...	...	...	
	N,E	L	01 57 ...	...	...	...	
	E	Mn	02 10 35	19	21	...	
	N	F	04 29 ...	...	...	...	
	E	F	04 39 ...	...	...	...	

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	μ	Km.	
July 19	N,E	i	06 10 21	...	...	...	Slight. Distant.
	E	Mn	06 49 30	21	5	...	
	N	Mn	06 53 13	17	3	...	
	N	F	07 34 ...	...	...	...	
	E	F	07 36 ...	...	...	...	
July 19	N,E	P	07 50 43	...	...	11090	Slight. Aftershock of the great earthquake of July 18 in New Hebrides.
	N,E	$\overline{ScPcS}$	08 01 13	...	...	...	
	N	$\overline{ScPc\ PcS}$	08 01 54	...	...	...	
	N,E	PS	08 03 36	...	...	...	
	N	SR_1	08 09 13	...	...	...	
	E	eL	08 26 0	...	...	...	
	E	Mn	08 46 36	19	9	...	
	N	Mn	08 51 13	17	9	...	
	N	F	10 30 0	...	...	...	
	E	F	10 43 0	...	...	...	
July 19	N,E	i	23 21 57	...	...	...	Seismic activity.
	N,E	F	23 31 0	...	...	...	
July 20	N	Mn	03 05 30	...	...	...	Seismic activity.
	E	Mn	03 06 00	...	...	...	
July 20	N,E	i	19 13 01	...	...	...	Feeble. Distant.
	E	Mn	19 48 30	16	3	...	
	N	Mn	20 00 34	15	3	...	
	N	F	20 40 0	...	...	...	
	E	F	20 45 0	...	...	...	
July 21	N	eP	06 32 26	...	...	11100	Moderate.
	N	$(PR_1$	06 36 13	...	...	...	Epc: 18°·2 S., 164° E. (J. S. A.).
	N	$\overline{ScPcS}$	06 43 00	...	...	...	Near New Hebrides of Islands. E-out of order.
	N	$\overline{ScPc\ PcS}$	06 43 37	...	...	...	
	N	SR_1	06 51 05	...	...	...	
	N	SR_2	06 55 00	...	...	...	
	N	eL	07 08 0	...	...	...	
	N	Mn	07 30 13	19	58	...	
	N	F	10 25 0	...	...	...	
July 21	N	$\dot{P}$	10 58 43	...	...	16220	Slight. Epc: Aftershock of the great Panama Earthquake of 18. E.—Out of order.
	N	PR_1	11 01 43	...	...	...	
	N	$\overline{ScPcP}$	11 02 13	...	...	...	
	N	$\overline{ScPc\ PcS}$	11 08 58	...	...	...	
	N	P $\overline{ScPcS}$	11 12 20	...	...	...	
	N	PPS	11 15 00	...	...	...	
	N	SR_1	11 20 35	...	...	...	
	N	SR_2	11 26 56	...	...	...	
	N	eL	11 48 ...	...	...	...	
	N	Mn	12 33 05	18	5	...	
	N	F	13 22 ...	...	...	...	
July 22	N	Mn	04 09 30	16	4	...	Seismic activity.

TABLE D 2—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.	Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.					H. M. S.	Sec.	μ	Km.	
1934.								1934.							
July 22	N	P	20 00 50	...	...	1745	Slight.	Aug. 4	E	i	13 19 54	...	...	...	Feeble. Distant.
	N	PR$_1$	20 01 01	...	...	...	Epc: 34°N., 71° E. Felt at Srinagar, Gulmarg, Gilgit, Dras, Drosh, Chernt, Peshawar, Rawalpindi, Sialkot, Lahore, Delhi, Amritsar and Dera Ismail Khan. E.—out of order.		N,E	i	13 24 08	...	...	...	
	N	P*	20 01 45	...	...	...			N,E	i	13 29 30	...	...	...	
	N	$\overline{\text{P}}$ (?)	20 02 38	...	...	...			N,E	P	14 22 ...	...	...	...	
	N	S	20 03 53	...	...	...									
	N	SR$_1$	20 04 27	...	...	...		Aug. 7	N,E	iP	03 53 43	...	...	10810	Slight.
	N	i	20 04 53	...	...	...			E	e (?)	03 56 38	...	...	...	Epc: 16° S. 163° E. West of New Hebrides Islands.
	N	L (?)	20 05 23	...	...	...			N,E	PR$_2$	03 59 46	...	...	...	
	N	F	Masked by microseisms.						N,E	$\overline{\text{ScPcS}}$	04 04 19	...	...	...	
									E	PS	04 06 23	...	...	...	
July 28	E	P	02 11 26	...	...	2355	Slight.		N	PPS	04 06 59	...	...	...	
	N,E	iS	02 15 20	...	...	...	P lost in N-S component in shifting paper. Epc: 36° N., 87°5 E. Tibet.		N,E	SR$_1$	04 11 49	...	...	...	
	E	SR$_1$	02 16 18	...	...	...			N,E	SR$_2$	04 15 49	...	...	...	
	N,E	iL	02 17 37	...	...	...			E	Mn	04 44 27	18	9	...	
	E	Mn	02 20 52	9	8	...			N	Mn	04 49 03	19	10	...	
	N	Mn	02 21 22	7	6	...			N	F	06 31 ...	...	...	...	
	N,E	F	Mixed up with microseisms.						E	F	06 51 ...	...	...	...	
July 28-29.	E	P	21 50 25	...	...	10690	Moderate.	Aug. 7	N,E	e	12 00 49	...	...	...	Slight. Near.
	E	PR	21 54 08	...	...	...	N—out of order.		E	i	12 03 54	...	...	...	
	E	PR	21 56 25	...	...	...	Epc: 55°·1 N., 154°8 W. (J. S. A.) South of Alaska.		N,E	eL (?)	12 05 30	...	...	...	
	E	ScPcS	22 00 54	...	...	...			N	Mn	12 08 36	11	13	...	
	E	PS	22 02 58	...	...	...			E	Mn	12 08 30	13	11	...	
	E	SR$_1$	22 08 30	...	...	...			N,E	F	Mixed up with microseisms.				
	E	eL	22 23 30	...	...	...		Aug. 9	N,E	i	19 56 24	...	...	...	Slight.
	E	Mn	22 36 28	23	53	...			N	F	20 57 ...	...	...	...	
	E	F	00 36 ...	...	...	...			E	F	20 59 ...	...	...	...	
July 30	N	i	03 38 ...	...	...	...	Slight.	Aug. 11	N,E	P	08 26 43	...	...	5045	Slight.
	E	Mn	03 44 25	...	...	...			N,E	S	08 33 30	...	...	...	Epc: 24°·7 N., 121°·7 E (Manila), Formosa) Islands.
	N,E	F	Masked by microseisms.						N,E	SR$_1$	08 37 26	...	...	...	
									N	Mn	08 45 11	15	21	...	
Jluy 31	N,E	i	06 13 28 1	...	... 1	...	Seismic activity.		E	Mn	08 45 20	15	12	...	
	N,E	F	Masked by microseisms.						N,E	F	Masked by microseisms.				
July 31	N,E	i	11 09 17	...	...	...	Seismic activity.	Aug. 11	E	e	12 10 ...	...	...	...	Slight. Distant.
	N	Mn	11 15 27	...	...	...			N,E	i	12 20 11	...	...	...	
	E	Mn	11 14 20	...	...	...			E	Mn	12 48 27	15	3	...	
									N	F	13 22 ...	...	...	...	
July 31	N,E	P	11 55 07	...	...	2955	Slight.		E	F	13 30 ...	...	...	...	
	N,E	PR$_1$	11 55 44	...	...	...	Epc: 5° N., 96° E. North Sumatra.	Aug. 12-13.	N,E	iP	23 58 37	...	...	5865	Moderate.
	N,E	PR$_2$	11 56 04	...	...	...			E	PR$_1$	00 00 41	...	...	...	Epc: 7°·6 N., 126°·2 E. (J. S. A.).
	N,E	S	11 59 47	...	...	...			N	PR$_2$	00 01 40	...	...	...	
	N,E	SR$_1$	12 01 01	...	...	...			N	S	00 06 12	...	...	...	Mindanao Islands.
	N,E	eL	12 03 ...	...	...	...			E	S	00 06 08	...	...	...	
	N	Mn	12 06 20	...	...	...			N,E	PS	00 06 44	...	...	...	
	E	Mn	12 06 31	17	6	...			N,E	SR$_1$	00 09 44	...	...	...	
	N,E	F	Masked by microseisms.						N,E	SR$_2$	00 11 14	...	...	...	
									N	L	00 15 ...	...	...	...	
Aug. 2	N	Mn	08 12 18	...	...	...	Seismic activity.		E	L	00 15 26	...	...	...	
	E	Mn	08 13 ...	...	...	...			E	Mn	00 24 18	17	47	...	

TABLE D 2—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1934.							
Aug. 12-13	N	Mn	00 29 08	16	16	...	
	N	F	01 30 ...	...	...	...	
	E	F	01 45 ...	...	...	...	
Aug. 18	N	Mn	03 14 ...	...	...	...	Seismic activity.
	E	Mn	03 17 23	...	...	...	
Aug. 21	N,E	e	19 32 54	...	...	3890	Slight. △ from(S-SR_2) interval. Epc: South Sumatra's West Coast (Batavia).
	N,E	S	19 37 40	...	...	...	
	N,E	SR_2	19 40 01	...	...	...	
	E	Mn	19 45 24	17	9	...	
	N	Mn	19 47 09	15	7	...	
	N,E	F	Masked by microseisms.				
Aug. 22	N,E	e	10 41 ...	...	...	...	Seismic activity.
	N	f	10 55 ...	...	...	...	
	E	f	10 51 ...	...	...	...	
Aug. 23-24.	E	i	23 54 39	...	...	...	Slight. Distant.
	N,E	i	00 12 59	...	...	...	
	E	Mn	00 57 16	15	2	...	
	N	Mn	01 01 ...	...	...	...	
	N,E	F	01 30 ...	...	...	...	
Aug. 26	N,E	i	17 41 13	...	...	...	Slight. Distant.
	E	Mn	17 58 15	...	...	...	
	N	Mn	17 54 16	...	...	...	
	N	F	18 10 ...	...	...	...	
	E	F	18 17 ...	...	...	...	
Aug. 29	N,E	i	03 48 13	...	...	...	Feeble. Beginning doubtful. Felt locally at Shambalpur, Muzaffarpur and Benares.
	N	Mn	03 50 14	2	10	...	
	E	Mn	03 50 14	2	4	...	
	N	F	04 01 ...	...	...	...	
	E	F	04 05 ...	...	...	...	
Aug. 31	N,E	P	05 15 29	...	...	9020	Slight.
	E	PR_1	05 18 51	...	...	...	Epc: 71°7 N., 70° W. (J. S. A.).
	N	PR_2	05 20 46	...	...	...	Baffin Bay.
	N,E	ScPcS	05 25 44	...	...	...	
	N	$\overline{S}$	05 26 08	...	...	...	
	N,E	PPS	05 27 28	...	...	...	
	N,E	SR_1	05 32 04	...	...	...	
	E	eL	05 43 ...	...	...	...	
	N	Mn	05 59 23	20	6	...	
	E	Mn	05 50 27	23	8	...	
	N	F	07 08 ...	...	...	...	
	E	F	07 39 ...	...	...	...	
Aug. 31	N,E	iP	15 02 21	...	...	2280	Moderate.
	N,E	PR_1	15 02 40	...	...	...	Epc: 39° N., 75° E. Pamir Plateau.
	N,E		15 06 09	...	...	...	

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1934.							
Aug. 31	N,E	SR_1	15 06 54	...	...	...	
	N,E	L	15 07 51	...	...	...	
	E	Mn	15 08 41	8	30	...	
	N	Mn	15 10 37	8	36	...	
	N	F	16 57 ...	...	...	...	
	E	F	17	...	...	...	
Aug. 31	N	e	17 54 ...	...	...	...	Tremors.
	E	e	17 55 ...	...	...	...	
	N	f	18 07 ...	...	...	...	
	E	f	18 05 ...	...	...	...	
Sept. 1	N	e	08 21 ...	...	...	...	Tremors.
	E	e	08 24 ...	...	...	...	
	N	f	08 43 ...	...	...	...	
	E	f	08 40 ...	...	...	...	
Sept. 1	N,E	e	12 40 ...	...	...	...	Feeble. Near
	E	i	12 42 12	...	...	...	
	N	Mn	12 44 27	...	...	...	
	N	F	12 56 ...	...	...	...	
	E	F	12 54 ...	...	...	...	
Sept. 3	N	e	10 23 56		...	...	Feeble. Near.
	E	i	10 27 40	...	...	...	
	N	Mn	10 33 59	...	...	...	
	N	F	10 46 ...	...	...	...	
	E	F	10 48 ...	...	...	...	
Sept. 4	E	e	16 49 14	...	...	...	Feeble. Distant.
	N,E	i	16 52 56	...	...	...	
	N	Mn	17 39 ...	15	4	...	
	E	Mn	17 34 ...	17	3	...	
	E	F	18 39 ...	...	...	...	
	N	F	18 44 ...	...	...	...	
Sept. 5	N,E	i	02 29 45	...	...	...	Feeble.
	E	Mn	02 39 15	...	...	...	
	E	F	02 47 ...	...	...	...	
	N	F	02 48 ...	...	...	...	
Sept. 6	N,E	i	02 33 15	...	...	...	Feeble.
	N,E	i	02 35 27	...	...	...	
	N	F	03 07 ...	...	...	...	
	E	F	03 08 ...	...	...	...	
Sept. 8	N	eP	06 49 36	...	...	2265	Slight.
	N,E	S	06 53 23	...	...	...	Epc: After shock of the Pamir Plateau earthquake of Aug. 1931.
	N,E	eL	06 55 30	...	...	...	
	N	Mn	06 58 30	7	2	...	
	E	F	07 15 ...	...	...	...	
	N	F	07 17 ...	...	...	...	
Sept. 8	N	Mn	14 18 ...	...	...	...	Seismic activity.

TABLE D 2 – *contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.	Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.					H. M. S.	Sec.	μ	Km.	
1934.								1934.							
Sept. 9	N	e	05 04 ...	...	...	...	Tremors.	Oct. 5	N,E	i	20 36 28	...	...	...	Slight.
	N	f	05 23 ...	...	...	...	E—out of order.		N,E	e	20 45 ...	...	...	...	
Sept. 11	N,E	i	08 31 ...	...	...	...	Seismic activity.		N	Mn	21 06 52	16	4	...	
	E	F	08 55 ...	...	...	...			E	Mn	21 06 26	14	2	...	
									N	F	21 34 ...	...	...	...	
Sept. 11	N,E	i	14 17 32	...	...	...	Seismic activity.		E	F	21 35 ...	...	...	...	
Sept. 12	E	Mn	15 01 30	...	...	...	Seismic activity.	Oct. 5	N	Mn	22 32 33	...	...	...	Probably seismic.
							N—out of order.		E	Mn	22 30 30	...	...	...	
Sept. 12	E	Mn	19 17 30	...	...	...	Seismic activity.	Oct. 6	N	Mn	14 20 15	13	2	...	Seismic activity
							N—out of order.		E	Mn	14 20 20	13	1	...	
Sept. 13	N,E	Mn	14 52 40	...	...	...	Seismic activity.	Oct. 10	N,E	e	16 00 30	...	...	...	Slight. Distant.
									N,E	e	16 02 31	...	...	...	Beginning uncertain.
Sept. 16	N,E	Mn	06 40 ...	...	...	...	Feeble seismic activity.		N,E	i	16 05 38	...	...	...	L—waves poor.
									N,E	i	16 06 46	...	...	...	
Sept. 16	N,E	Mn	13 48 15	...	...	...	Feeble seismic activity.		N,E	i	16 07 37	...	...	...	
Sept. 17	N,E	i	17 26 23	...	...	...	Feeble seismic activity.		E	i	16 09 12	...	...	...	
									N	F	17 46 ...	...	...	...	
Sept. 17	N	i	18 52 02	...	...	...	Feeble seismic activity.		E	F	17 49 ...	...	...	...	
	E	i	18 49 30	...	...	...									
Sept. 21	N,E	eP	12 45 09	...	...	3455	Slight. Probably deep focus.	Oct. 15	E	e	08 32 ...	...	...	...	Slight.
	N,E	e	12 48 41	...	...	...	Maximum movements near SR_1.		N	e	08 37 ...	...	...	...	
	N,E	iS (?)	12 50 22	...	...	...	Epc: 3° N., 100° E., North Sumatra.		E	Mn	08 46 52	7	1	...	
	N,E	SR_1 (?)	12 52 18	...	...	...			N,E	F	09 06 ...	...	...	...	
	N	F	13 50 ...	...	...	...		Oct. 18	E	e	08 01 29	...	...	...	Slight. Distant.
	E	F	13 42 ...	...	...	...	Felt in Tapanoeli (Batavia).		N	e	08 01 36	...	...	...	Time uncertain.
									E	Mn	08 47 46	16	3	...	
Sept. 23	N,E	e	01 33 ...	...	...	...	Seismic activity.		N	F	09 55 ...	...	...	...	
	N,E	F	01 47 ...	...	...	...			E	F	09 54 ...	...	...	...	
Sept. 23	N	Mn	09 08 14	...	...	...	Seismic activity.	Oct. 19	N,E	iP	21 02 13	...	...	1690	Slight.
	E	Mn	09 07 29	...	...	...			N,E	iS	21 05 11	...	...	...	Epc.: 32° N., 81° E. Tibet.
Sept. 24	N	Mn	11 33 30	...	...	...	Seismic activity.		E	SR_1	21 05 36	...	...	...	
	E	Mn	11 38 25	...	...	...			N	SR_1	21 05 40	...	...	...	
									E	L	21 06 15	...	...	...	
Sept. 25	N,E	i	19 26 38	...	...	...	Feeble.		N	eL	21 06 25	...	...	...	
	N	Mn	19 37 23	...	...	...			E	Mn	21 07 44	9	17	...	
	E	Mn	19 37 15	...	...	...			N	Mn	21 07 46	13	19	...	
	N,E	F	20 02 ...	...	...	...			N,E	F	21 44 ...	...	...	...	
Sept. 25	N,E	e	23 32 ...	...	...	...	Feeble.								
	N,E	Mn	23 36 30	...	...	...		Oct. 20	N	e	08 21 ...	...	...	...	Slight.
	N	F	23 55 ...	...	...	...			N	Mn	08 26 30	...	...	...	
	E	F	23 57 ...	...	...	...			E	Mn	08 28 40	...	...	...	
									N,E	F	08 41 ...	...	...	...	
Sept. 26	N,E	e	01 11 ...	...	...	...	Feeble.								
	E	F	01 38 ...	...	...	...	Felt locally at Lahore, Peshawar, Drosh, Srinagar and Gulmarg.								
	N	F	01 40 ...	...	...	...		Oct. 21	N,E	iP	18 04 26	...	...	7110	Slight.
									N,E	iS	18 13 09	...	...	...	
Sept. 26	N	Mn	08 33 29	...	...	...	Seismic activity.		N,E	PS	18 14 03	...	...	...	
	E	Mn	08 34 20	...	...	...			N,E	SR1	18 17 37	...	...	...	
Sept. 27	N,E	e	23 00 ...	...	...	...	Tremors.		N	F	19 01 ...	...	...	...	
	N,E	f	23 15 ...	...	...	...			E	F	19 04 ...	...	...	...	

TABLE D 2—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S. Sec.	T	μ	Km.	
1934.							
Oct. 22	N,E	e	01 07	...	...	...	Feeble. Near.
	N,E	f	01 26	...	...	...	
Oct. 25	N,E	e	01 40 19 ...	...	...	...	Slight. Near.
	N,E	i	01 42 43 ...	...	...	...	
	E	Mn	01 44 47 9	2	...		
	E	F	01 58	...	...		
	N	F	02 02	...	...		
Oct. 26	N,E	P	14 53 08 ...	...	5490		Slight.
	N,E	iS	15 00 15 ...	...	...		Epc: 0°.0 118° E. West of Borneo.
	N,E	i	15 02 03 ...	...	...		
	E	SR_1	15 03 52 ...	...	...		
	N	F	15 53	...	...		
	E	F	15 50	...	...		
Oct. 26	N,E	iP	17 20 30 ...	...	5365		Slight.
	N,E	iS	17 28 03 ...	...	...		Epc: 32° N., 129° E. West of Kinsen Islands (Japan).
	N	eL	17 37	...	...		
	E	sL	17 40	...	...		
	E	Mn	17 43 37 15	4	...		
	N	Mn	17 49 38 12	3	...		
	N	F	18 47	...	...		
	E	F	18 48	...	...		
Oct. 27	E	Mn	11 11 18 ...	...	...		Seismic activity.
	N	Mn	11 12 10 15	2	...		
Oct. 29	N,E	P	16 21 56 ...	...	3520		Slight.
	N,E	S	16 27 13 ...	...	...		
	N	F	17 21	...	...		
	E	F	17 20	...	...		
Nov. 2	N,E	e	15 27	...	...		Tremors.
	N,E	f	15 34	...	...		Mixed up with microseisms.
Nov. 3	N,E	e	06 56	...	...		Tremors. Mixed up with microseisms.
	E	f	07 02	...	...		
	N	f	07 07	...	...		
Nov. 4	E	i	02 12 43 ...	...	...		Slight. Distant.
	N	Mn	03 04 ... 15	7	...		
	E	Mn	02 53 30 17	3	...		
	E	F	05 51	...	...		
	N	F	05 53	...	...		
Nov. 5-6	N,E	iP	23 15 16 ...	...	10020		Slight.
	E	ScPcS	23 25 34 ...	...	...		Epc: 53°·2N., 176°·7 W. (U.S.A.). North of Aleutian Islands.
	N	ScPc PcS	23 26 03 ...	...	...		
	N,E	iS	23 26 10 ...	...	...		
	N,E	SR_1	23 32 20 ...	...	...		
	N	Mn	23 51 18 19	6	...		
	E	Mn	23 57 30 19	8	...		
	E	F	00 54	...	...		
	N	F	01 04	...	...		

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S. Sec.	T	μ	Km.	
1934.							
Nov. 12	N,E	iP	07 26 12 ...	...		3745	Slight.
	N,E	iS	07 31 43 ...	...		...	Epc: 58° N., 69°E., North of Russian Turkistan.
	N	iL	07 36 21 ...	...		...	
	E	eL	07 37	...		...	
	N	Mn	07 41 22 18	9		...	
	E	Mn	07 41 28 15	5		...	
	N	F	08 40	...		...	
	E	F	08 38	...		...	
Nov. 13	N	e	11 58	...		...	Tremors.
	E	e	12 00	...		...	
	N	F	12 13	...		...	
	E	F	12 15	...		...	
Nov. 15	N,E	P	23 18 49 ...	...		1865	Slight. Epc: 36°N., 74°E. Kashmir.
	N	PR_2 (?)	23 19 13 ...	...		...	Felt locally at Drosh and Srinagar.
	N,E	S	23 22 05 ...	...		...	
	E	eL	23 23	...		...	
	N,E	F	23 49	...		...	
Nov. 16	N,E	e	13 55	...		...	Feeble. Distant.
	N,E	i	14 04 39 ...	...		...	
	N	Mn	14 55 23 15	3		...	
	E	F	15 26	...		...	
	N	F	15 53	...		...	
Nov. 18	N,E	iP	03 25 15 ...	...		1820	Moderate. Epc: 34°·5N., 72°·5E. North-West Frontier
	N,E	iP* (?)	03 26 17 ...	...		...	
	N,E	$\overline{P}$ (?)	03 27 02 ...	...		...	Felt strongly at Drosh, Srinagar, Rawalpindi and Peshawar.
	N,E	eS	03 28 25 ...	...		...	
	N,E	SR_1	03 29 03 ...	...		...	
	N,E	eL	03 30	...		...	
	E	Mn	03 30 53 ...	...		...	
	N,E	F	04 47	...		...	
Nov. 18	N,E	e	09 30 03 ...	...		...	Slight. Distant.
	E	Mn	10 05 40 ...	...		...	
	E	F	10 22	...		...	
	N	F	10 32	...		...	
Nov. 18-19.	N,E	iP	22 52 33 ...	...		9450	Slight.
	E	PR_1	22 55 50 ...	...		...	Epc: 1°S., 155°E. North of New Ireland (Pacific).
	N,E	ScPcS	23 02 42 ...	...		...	
	N,E	eS	23 03 05 ...	...		...	
	E	SR_1	23 03 48 ...	...		...	
	E	eL	23 20 35 ...	...		...	
	N	F	00 13	...		...	
	E	F	00 01	...		...	
Nov. 19	N,E	e	02 51	...		...	Tremors.
	N	F	03 08	...		...	
	E	F	03 10	...		...	

TABLE D 2—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	μ	Km.	
Nov. 19	N,E	e	10 06 ...	...	...	...	Tremors.
	E	f	10 25 ...	...	...	...	
	N	f	10 26 ...	...	...	...	
Nov. 22	N	e	22 31 ...	...	...	...	Probably seismic.
	E	i	22 31 18	...	...	...	
	E	F	22 53 ...	...	...	...	
	N	F	22 56 ...	...	...	...	
Nov. 23	N,E	e	09 45 ...	...	...	...	Feeble. Distant.
	E	F	10 02 ...	...	...	...	
	N	F	10 03 ...	...	...	...	
Nov. 24	N,E	e	12 51 ...	...	...	...	Feeble. Distant.
	E	F	14 06 ...	...	...	...	
Nov. 26	N,E	P	12 17 35	...	...	4845	Slight.
	E	PR_1	12 19 15	...	...	...	L—waves poor.
	N,E	iS	12 24 11	...	...	...	Epc: 14°N., 118° E. West of Philippines.
	N,E	SR_1	12 27 11	...	...	...	
	N	eL	12 31 35	...	...	...	
	N	F	12 49 ...	...	...	...	Feeble. Seismic movements.
Nov. 27	N,E	e	01 30 ...	...	...	...	
Nov. 27	N,E	P	06 23 44	...	...	6155	Slight.
	N,E	iS	06 31 32	...	...	...	Epc: 4°N., 126°·7 E. South of Mindanao Islands.
	E	SR_1	06 35 34	...	...	...	
	N	L	06 40 44	...	...	...	
	N	Mn	06 47 03	19	16	...	
	N	F	08 30 ...	...	...	...	
Nov. 29	N	Mn	22 49 21	11	3	...	Seismic activity.
	E	Mn	22 48 30	...	...	...	
Nov 30	E	eP^1	02 24 46	...	...	15780	Slight.
	E	PR_1	02 27 36	...	...	...	Epc: 16°·5N., 105°W. (J. S. A.). Mexico.
	E	ScPcP	02 28 08	...	...	...	
	E	PR_2	02 31 ...	...	...	...	
	E	SR_1	02 46 10	...	...	...	N—lost during shift.
Nov. 30	N,E	Mn	21 44 ...	...	...	...	Seismic activity.
Dec. 2	N,E	i	16 49 16	...	...	...	Slight. Distant.
	E	i	16 53 40	...	...	...	
	N,E	i	16 55 11	...	...	...	
Dec. 3	N,E	i	02 58 ...	...	...	...	Feeble. Very distant.
	N	F	05 05 ...	...	...	...	
	E	F	Masked by microseisms.				
Dec. 4	N,E	P'	17 43 44	...	...	17000	Slight.
	E	PR_2	17 47 44	...	...	...	Epc: 19° S., 70° W. (U. S. C. G. S.).
	E	ScPc PCS	17 54 14	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	μ	Km.	
Dec. 4	E	F	19 20 ...	...	...	...	Northern Chile. Time uncertain owing to failure of Time marks.
Dec. 5	N,E	e	21 38 18	...	...	...	Seismic activity.
Dec. 9	E	eP	11 26 36	...	...	5010	Slight.
	E	S	11 33 06	...	...	...	N—out of order.
	E	SR_1	11 36 06	...	...	...	
	E	SR_2	11 36 13	...	...	...	
	E	eL	11 40 20	...	...	...	
	E	F	12 06 ...	...	...	...	
Dec. 12	N	e	09 01 ...	...	...	...	Tremors.
	E	e	08 59 ...	...	...	...	
	N,E	f	09 24 ...	...	...	...	
Dec. 13	N,E	e	01 12 ...	...	...	...	Seismic activity.
	E	f	01 34 ...	...	...	...	
	N	f	01 32 ...	...	...	...	
Dec. 14	E	eP	20 46 49	...	...	2065	Slight.
	N,E	iP	20 47 04	...	...	...	Epc: 32° N., 88° E., South Tibet.
	N,E	eS	20 50 20	...	...	...	Foreshock of the following great shock.
	N,E	iS	20 50 36	...	...	...	
	E	SR_1	20 51 14	...	...	...	
	N,E	SR_2 (?)	20 51 31	...	...	...	
	N,E	eL	20 52 ...	...	...	...	
	N	Mn	20 53 30	10	12	...	
	E	Mn	20 54 52	7	5	...	
	N	F	Masked by microseisms.				
	E	F	21 21 ...	...	...	...	
Dec. 15	N	iP	02 02 01	...	...	2065	Very great.
	N	iPR_1	02 02 19	...	...	...	Epc: 32° N., 88° E. South Tibet. Beginning of E-W lost in shifting. Maximum movements not recorded by E-W and lost in shifting of N-S.
	N	P^*	02 03 17	...	...	...	
	N	$\bar{P}$	02 04 04	...	...	...	
	N,E	iS	02 05 32	...	...	...	
	N,E	SR_1	02 06 10	...	...	...	
	N	L	02 07 06	...	...	...	
	E	L	02 07 12	...	...	...	
	N	F	05 30 ...	...	...	...	
	E	F	05 39 ...	...	...	...	
Dec. 15	N	Mn	06 39 40	...	...	...	Probably aftershock of Tibetan shock of 15th December 1934.
Dec. 15	N	Mn	07 23 12	...	...	...	Probably aftershock of Tibetan shock of 15th December 1934.
	E	Mn	07 23 16	...	...	...	

TABLE D 2—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	μ	Km.	
Dec. 15	N	Mn	07 36 20	...	...	...	Probably aftreshock of Tibetan shock of 15th December 1934.
	E	Mn	07 36 37	...	...	...	
Dec. 15	N	Mn	09 07 40	...	...	...	Probably after shock of Tibetan shock of 15th December 1934.
Dec. 15	N	Mn	10 39 35	...	...	...	Probably aftershock of Tibetan shock of 15th December 1934.
			10 39 45	...	...	...	
	E	Mn					
Dec. 15	N,E	e	17 57 20	...	...	...	Slight. Aftershock of the Tibetan shock of 15th December 1934.
	N,E	e	18 00 57	...	...	...	
	N	Mn	18 05 17	9	4	...	
	E	Mn	18 05 15	7	2	...	
	N	F	18 22 ...	...	...	...	
	E	F	18 24 ...	...	...	...	
Dec. 15	N,E	i	19 38 06	...	...	...	Slight. Distant.
	N,E	i	19 39 12	...	...	...	
	N,E	F	20 32 ...	...	...	...	
Dec. 16	N	Mn	00 40 12	7	3	...	Aftershock of the Tibetan shock of 15th December 1934.
	E	Mn	00 40 07	7	1	...	
Dec. 16	N,E	e	16 18 58	...	...	...	Aftershock of the Tibetan shock of 15th December 1934.
	E	Mn	16 22 48	...	...	...	
	N	Mn	16 23 09	...	...	...	
	E	F	16 34 ...	...	...	...	
	N	F	16 35 ...	...	...	...	
Dec. 16	N	e	19 18 ...	...	...	...	Tremore.
	E	e	19 16 ...	...	...	...	
	E	f	19 35 ...	...	...	...	
	N	f	19 37 ...	...	...	..	
Dec. 16-17	N,E	eP	23 39 46	..	...	2080	Slight. Aftershock of the Tibetan shock of 15th December 1934.
	N,E	eS	23 43 18	...	...	...	
	N	eL	23 45 20	...	...	...	
	E	eL	23 44 57	...	...	...	
	N	Mn	23 47 35	7	3	...	
	E	Mn	23 47 39	7	1	...	
	N,E	F	00 08 ...	...	...	...	
Dec. 17	N,E	e	03 54 ...	...	...	...	Tremors.
	N,E	F	04 17 ...	...	...	...	
Dec. 17	N,E	Mn	06 57 56	...	...	...	Probably aftershock of the Tibetan shock of 15th December 1934.
	N,E	F	07 10 ...	...	...	...	
Dec. 17	N	Mn	09 28 10	7	2	...	Aftershock of the Tibetan shock of 15th. December 1934.
	E	Mn	09 28 07	7	1	...	
Dec. 17	N	F	09 41 ...	...	...	...	
	E	F	09 43 ...	...	...	...	
Dec. 17	N	Mn	14 53 15	8	2	...	Aftershock of the Tibetan shock of 15th December 1934.
	E	Mn	14 53 11	8	1	...	
	N,E	F	15 09 ...	...	...	...	
Dec. 17	N,E	eP	16 04 33	...	...	8565	Slight.
	E	PR_1	16 07 40	...	...	...	Epc: 6°·5 N., 145° E. British New Guinea.
	E	PR_2	16 09 17	...	...	...	
	N,E	iS	16 14 25	...	...	...	
	N,E	PS	16 15 10	...	...	...	
	N,E	SR_1	16 19 31	...	...	...	
	N,E	SR_2	16 22 40	...	...	...	
	N,E	eL	16 29 ...	...	...	...	
	N	F	17 39 ...	...	...	...	
	E	F	17 40 ...	...	...	...	
Dec. 17	N	Mn	22 43 45	8	2	...	Probably aftershock of the Tibetan shock of 15th December 1934.
	E	Mn	22 43 43	8	1	...	
	N,E	F	22 59 ...	...	...	...	
Dec. 18	N,E	iP	11 26 44	...	...	2145	Moderate.
	N,E	iS	11 30 21	...	...	...	Epc: 32° N., 88° E. South Tibet.
	N,E	SR_1	11 31 01	...	...	...	
	N,E	L	11 31 49	...	...	...	
	N	Mn	11 34 44	8	28	...	
	E	Mn	11 34 26	8	14	...	
	N	F	12 27 ...	...	...	...	
	E	F	12 26 ...	...	...	...	
Dec. 19	N	Mn	03 15 12	8	2	...	Aftershock.
	E	Mn	03 16 12	7	1	...	
	N,E	F	03 32 ...	...	...	...	
Dec. 21	N,E	eP	06 39 08	...	...	2110	Slight.
	N,E	iS	06 42 42	...	...	...	Epc: Tibet. Aftershock.
	N	SR_1	06 43 20	...	...	...	
	N,E	eL	06 44 ...	...	...	...	
	N	Mn	06 47 01	8	8	...	
	E	Mn	06 47 24	8	3	...	
	N	F	07 19 ...	...	...	...	
	E	F	07 18 ...	...	...	...	
Dec. 21	N,E	iP	12 43 31	...	...	2145	Moderate.
	N,E	iS	12 47 08	...	...	...	Epc: Tibet. Aftershock.
	N,E	SR_1	12 47 48	...	...	...	
	N	eL	12 48 ...	...	...	...	
	E	eL	12 49 ...	...	...	...	
	N	Mn	12 51 12	8	9	...	
	E	Mn	12 51 14	7	5	...	
	N	F	13 21 ...	...	...	...	
	E	F	13 26 ...	...	...	...	

TABLE D 2—*conta*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.	Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.					H. M. S.	Sec.	μ	Km.	
1934.								1934.							
Dec. 22	N,E	e	05 19 ...	...	...	...	Tremors.	Dec. 27	N,E	e	12 41 ...	...	...	...	Tremors.
	N	f	05 27 ...	...	...	...			N,E	f	13	...	...	...	
	E	f	05 28 ...	...	...	...		Dec. 27	N	iP	13 41 27	...	...	1745	Slight.
Dec. 22	N,E	eP	10 57 33	...	...	3280	Slight.		N	PR_1	13 41 58(?)	...	...	...	Epc: 35° N., 72° ·5 E. North-West Frontier.
	N,E	PR_2 (?)	10 58 39	...	...	...	L—waves poor.		N,E	eS	13 44 30	...	...	...	
	N,E	S	11 02 35	...	...	...	Largest movement in S—phase.		N,E	SR_1	13 45 12	...	...	...	Felt at Drosh, Peshawar and Lahore.
	N,E	SR_1	11 03 59	...	...	...			N,E	L (?)	13 45 43	...	...	...	
	N	eL	11 05 33	...	...	...			N	F	14 13 ...	...	...	...	
	E	eL	11 05 39	...	...	...			E	F	14 12 ...	...	...	...	
	N	F	12 11 ...	...	...	...									
	E	F	12 12 ...	...	...	...									
Dec. 22	N,E	e	14 49 ...	...	...	...	Slight. Very distant.	Dec. 28	N,E	Mn	12 38 30	...	...	...	Seismic activity.
	N	Mn	15 48 30	...	...	...		Dec. 30	N,E	e	14 13 ...	...	...	...	Slight. Distant.
	E	Mn	15 58 25	...	...	...			N	Mn	15 11 46	...	...	...	
	N	F	17 15 ...	...	...	...			E	Mn	15 08 30	...	...	...	
	E	F	16 54 ...	...	...	...			N	F	16 39 ...	...	...	...	
Dec. 23	E	i	10 11 44	...	...	...	Slight. Very distant		E	F	16 12 ...	...	...	...	
	N,E	i	10 12 23	...	...	...									
	N,E	i	10 15 ...	...	...	...									
	N,E	e	10 34 ...	...	...	...		Dec. 31	N,E	$\frac{PR_1}{ScPcP}$	19 07 38	...	...	15000	Moderate.
	E	Mn	11 19 30	...	...	...			N,E		19 08 38	...	...	...	Beginning uncertain.
	N	F	11 41 ...	...	...	...			E	$\frac{PR_2}{ScPcS}$	19 10 36	...	...	...	
	E	F	11 45 ...	...	...	...			N,E		19 12 08	...	...	...	Epc: 28° N., 104° W. North Mexico.
									N,E	PPS	19 19 46	...	...	...	
Dec. 24	N	Mn	05 18 20	...	...	...	Seismic activity.		N,E	SR_1	19 25 32	...	...	...	
	E	Mn	05 15 20	...	...	...			N	eL	19 49 48	...	...	...	
									E	eL	19 48 ...	...	...	...	
Dec. 24	N,E	e	16 15 15	...	...	...	Seismic activity.		N	Mn	20 09 15	15	14	...	
Dec. 25	N,E	e	06 37 ...	...	...	...	Feeble. Distant.		E	Mn	20 04 40	21	14	...	
	N	f	07 58 ...	...	...	...			N	F	22 22 ...	...	...	...	
	E	f	07 49 ...	...	...	...			E	F	22 18 ...	...	...	...	

S. C. ROY,
Meteorologist.

Colaba Observatory, Bombay.

STATION—ALIPORE, CALCUTTA.

Lat 22°32′, Long. 88°20′.

Height above M. S. L. (*a*) 7·1 m.; (*b*) and (*c*) 6·0 m. Lithologic Foundation : Alluvium.

Instruments :—

(*a*) Milne Shaw Seismograph, N.—S. component, magnetic damping.

(*b*) Omori—Ewing horizontal pendulum seismograph, N.—S. component.

(*c*) ,, ,, ,, E—W. ,,

Instrumental constants.

	Compt.	Steady mass Kg.	T. (sec.).	Vm	$\mathfrak{C}$	Paper speed mm./min.
(*a*)	N	0.45 Kg.	12	250	20 : 1	8
(*b*)	N		28	32	1 : 1	
(*c*)	E		28	30	1 : 1	

TABLE D 3.

Date.	Phase.	Time G. M. T.	Period (sec.)	Amp tude (μ) AN	Amp tude (μ) AE	Distance △ (Km.)	Remarks.
1934.		H. M. S.					
Jan. 1	eP	06 22 41	2	...	...	7,250	Slight.
	S	06 31 36	5	...	...	...	
	L	06 45 20	14	...	...	...	
	M	06 49 20	16	6	...	...	
	F	07 23 36	...	...	...	...	
Jan. 2	P	21 01 23	3	...	...	3,460	Moderate.
	S	21 06 37	5	...	...	...	
	L	21 10 46	8	...	...	...	
	M	21 12 21	10	39	...	...	
	F	22 24 23	...	...	...	...	
Jan. 3	P	09 52 47	5	...	...	7,300	Slight.
	eS	10 01 35	8	...	...	...	
	L	10 16 09	12	...	...	...	
	F	?	...	...	...	...	
Jan. 12	eP	13 25 26	3	...	...	1,590	Moderate.
	S	13 38 14	5	...	...	...	
	L	13 39 20	8	...	...	...	
	M	?	...	...	...	...	
	F	?	...	...	...	...	
Jan. 14	P	03 50 36	2	...	...	900	Slight.
	S	03 52 03	4	...	...	...	
	L	03 52 58	6	...	...	...	
	F	04 11 23	...	...	...	...	
	P	15 00 01	?	...	...	700	Slight.
	S	15 01 13	3	...	...	...	
	L	15 01 41	5	...	...	...	
	F	15 17 01	...	...	...	...	
Jan. 14	P	18 54 55	2	...	...	450	Slight.
	S	18 55 40	4	...	...	...	
	L	18 56 07	6	...	...	...	
	F	19 16 47	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (sec.)	Amp tude (μ) AN	Amp tude (μ) AE	Distance △ (Km.)	Remarks.
1934.		H. M. S.					
Jan. 15	P	08 44 18	...	...	...	360	Severe: instrument thrown out of action (N. Bihar shock).
	P	08 44 29	...	...	...	...	
	P	14 24 31	...	...	...	...	Tremors.
	P	14 54 57	...	...	...	...	Do.
	P	15 03 44	...	...	...	...	Do.
	P	15 21 06	...	...	...	...	Do.
	P	15 49 06	...	...	...	...	Do.
	P	17 23 33	...	...	...	...	Do.
	P	18 04 53	...	...	...	...	Do.
	P	19 50 26	...	...	...	...	Do.
	P	20 28 15	...	...	...	...	Do.
	P	20 31 31	...	...	...	...	Do.
	P	21 09 14	...	...	...	...	Do.
	P	21 35 30	...	...	...	...	Do.
	P	22 24 11	...	...	...	...	Do.
Jan. 16	P	03 01 21	...	...	...	...	Do.
Jan. 16	P	05 00 46	1	...	...	400	Moderate (Omor N.-S. Inst.).
	S	05 01 28	2	...	...	...	
	L	05 01 52	3	...	...	...	
	M	05 02 ...	3	258	...	...	
	F	05 33 46	...	...	...	...	
Jan. 16	P	14 43 12	...	...	...	...	Tremor.
Jan. 16	P	16 05 29	2	...	...	550	Slight.
	S	16 05 59	3	...	...	...	
	F	16 12 31	...	...	...	...	
Jan. 16	P	18 45 56	4	...	...	4,445	Slight.
	S	18 52 08	...	...	...	...	
	SR	18 53 54	6	...	...	...	
	M	19 08 26	14	8	...	...	

TABLE D 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN	Amplitude (μ) AE	Distance. △ (Km.)	Remarks
1934.		H. M. S.					
	F	19 55 56	...	...	...	...	
Jan. 17	eP	02 45 43	...	...	...	...	Tremor.
	eP	03 12 20	...	...	...	...	Do.
	P	03 49 47	...	...	...	...	Do.
	P	03 54 07	...	...	...	...	Do.
	P	06 30 40	...	...	...	...	Do.
	P	07 06 47	...	...	...	...	Do.
	P	08 37 11	...	...	...	...	Do.
	P	18 36 44	...	...	...	...	Do.
	P	19 30 04	...	...	...	...	Do.
Jan. 17	P	20 20 09	4	...	...	3,200	Slight.
	S	20 25 09	6	...	...	...	
	L	20 28 56	8	...	...	...	
	F	20 43 09	...	...	...	...	
Jan. 17	P	20 45 46	...	...	...	...	Tremor.
	P	21 20 51	...	...	...	...	Do.
	P	22 04 27	...	...	...	...	Do.
Jan. 17	P	23 18 05	...	...	...	...	Do.
Jan. 18	P	04 48 11	...	...	...	...	Do.
	P	11 20 33	...	...	...	...	Do.
	P	13 12 37	...	...	...	...	Do.
	P	15 56 30	...	...	...	...	Do.
Jan. 19	P	12 35 49	4	...	...	1000	Moderate.
	S	12 37 28	8	...	...	...	
	L	12 38 15	10	...	...	...	
	M	12 41 43	10	67	...	...	
	F	13 38 15	...	...	...	...	
Jan. 19	P	18 50 51	1	...	...	440	Moderate (Omori N.-S. inst.)
	S	18 51 43	2	...	...	...	
	L	18 52 ...	3	...	...	...	
	M	18 52 30	3	121	...	...	
	F	19 27 20	...	...	...	...	
Jan. 20	P	18 01 22	6	...	...	3,060	Moderate.
	S	18 06 10	9	...	...	...	
	L	18 10 12	12	...	...	...	
	M	18 13 28	12	44	...	...	
	F	19 26 28	...	...	...	...	
Jan. 20	P	22 19 17	6	...	...	12,300	Slight.
	S	22 31 44	9	...	...	...	
	L	23 02 51	11	...	...	...	
	M	23 14 38	14	23	...	...	
Jan. 21	F	00 11 02	...	...	...	...	
Jan. 21	P	02 34 34	?	...	...	400	Slight.
	S	?	?	...	...	...	
Jan. 21	L	02 35 28	3	...	...	...	
	F	02 42 13	...	...	...	...	
Jan. 21	P	06 52 02	?	...	...	400	Slight.
	S	?	?	...	...	...	
	L	06 53 04	4	...	...	...	
		?		...	...	...	
Jan. 21	P	06 58 25	4	...	...	4,850	Slight.
		07 05 03	6	...	...	...	
	L	07 12 47	10	...	...	...	
	M	07 16 57	10	27	...	...	
	F	08 11 01	...	...	...	...	
Jan. 21	P	14 59 17	?	...	...	300	Slight.
	S	?	?	...	...	...	
	L	14 59 57	2	...	...	...	
	F	15 08 52	...	...	...	...	
Jan. 21	P	19 50 54	?	...	...	300	Slight.
	S	?	?	...	...	...	
	L	19 51 54	4	..	...	...	
	F	20 12 24	...	...	...	...	
Jan. 22	P	21 27 37	4	...	...	1,750	Slight.
	S	21 30 43	6	...	...	...	
	L	21 31 49	9	...	...	...	
	F	21 43 41	...	...	...	...	
Jan. 23	P	05 26 09	?	...	...	300	Slight.
	S	?	?	...	...	...	
	L	05 26 55	2	...	...	...	
	F	05 34 25		...	...	...	
Jan. 24	P	07 03 10	?	...	...	400	Slight.
	S	?	?	...	...	...	
	L	07 04 08	3	...	...	...	
	F	07 14 30	...	...	...	...	
Jan. 25	P	23 59 46	?	...	...	500	Slight.
	S	?	?	...	...	...	
Jan. 26	L	00 00 58	3	...	...	...	
	F	00 09 4:	..	...	...	...	
Jan. 28	eP′	19 32 38	5	...	...	16,350	Moderate.
	PR_1	19 35 59	6	...	...	...	
	SR_1	19 55 01	10	...	...	...	
	eL_1	20 22 41	16	...	...	...	
	M_1	20 31 23	20	23	...	...	
	M_2	20 32 38	20	23	...	...	
	M_3	20 38 53	20	29	..	...	
	F	22 07 36	...	...	...	...	
Jan. 30	P	15 39 02	2	...	...	900	Slight.
	S	15 40 26	3	...	...	...	
	L	15 41 28	5	...	...	...	
	F	15 47 28	...	...	...	...	

TABLE D 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	Amplitude (μ) AE.	Distance △ (Km.)	Remarks.
1934.		H. M. S.					
Jan. 30	P	20 27 30	6	..	...	12,950	Slight.
	S	20 40 36	10	...	...	...	
	L	21 12 04	20	...	...	...	
	F	?					
Jan. 30	P	23 07 36	?	...	...	300	Slight.
	S	?	?	...	...	...	
	L	23 08 15	2	...	...	...	
	F	23 10 45	...	...	...	...	
Feb. 2	P	15 13 53	4	...	...	5,755	Slight.
	S	15 21 20	8	...	...	...	
	L	15 28 27	14	...	...	...	
	M	15 34 57	20	29	..	...	
	F	17 08 57	...	...	...	...	
Feb. 3	P	14 41 44	5	...	...	7,285	Slight.
	S	14 50 34	7	...	...	...	
	L	15 02 34	20	...	...	...	
	M	15 08 14	22	42	...	...	
	F	17 44 14	...	...	...	...	
Feb. 4	P	12 51 05	1	...	...	400	Slight (Omor. N. S. inst.).
	S	12 51 47	2	...	...	...	
	L	12 52 13	?	...	...	...	
	M	12 52 36	5	121	...	...	
	F	13 1 13	...	...	...	...	
Feb. 4	P	13 33 49	5	...	...	3,245	Great.
	S	13 38 49	7	...	...	...	
	L	13 42 59	15	...	...	...	
	M	13 46 24	20	244	...	...	
	F	15 37 24	...	...	...	..	
Feb 4	P	22 10 29	5	...	...	5,600	Slight.
	S	22 17 39	7	...	...	...	
	L	22 27 39	10	...	...	...	
	M	22 29 19	14	16	...	...	
	F	23 36 19	...	...	...	...	
Feb. 8	eP	14 41 45	?	..	...	400	Slight.
	S	14 42 41	?	...	...	...	
	L	14 42 51	?	...	...	...	
	F	14 53 36	...	...	...	..	
Feb. 10	eP	04 46 45	?	...	...	700	Slight.
	S	04 48 01	2	...	...	...	
	L	04 48 33	4	...	...	...	
	F	05 07 35	...	...	...	...	
Feb. 11	eP	14 54 12	?	...	...	480	Slight.
	S	14 55 07	2	...	...	...	
	L	14 55 22	4	...	...	...	
	F	15 03 34	...	...	...	...	
Feb. 12	eP	03 58 46	2	...	...	300	Slight.
Feb. 12 — *contd.*	S	03 59 16	3	...	...	...	
	L	03 59 36	5	...	...	...	
	M	03 59 51	5	14	...	..	
	F	04 11 51	...	...	...	...	
Feb. 12	P	11 35 39	6	...	...	2,150	Moderate (Omori. N S. inst.)
	S	11 39 09	10	...	...	...	
	L	11 41 19	15	...	...	...	
	M	11 45 39	20	759	...	...	
	F	?					
Feb. 14	P	04 05 56	6	...	...	3,200	Very great.
	S	04 10 56	12	...	...	...	
	L	04 14 48	22	...	...	...	
	M	04 25 34	30	89	...	...	
	F	09 23 59	...	...	...	...	
Feb. 16	P	06 29 15	5	...	...	9,200	Moderate
	S	06 39 35	8	...	...	...	
	L	06 59 55	10	...	...	...	
	M_1	07 06 49	12	25	...	...	
	M_2	07 10 19	12	22	...	...	
	F	08 00 19	...	...	...	...	
Feb. 17	P	02 52 22	2	...	...	490	Slight.
	S	02 53 15	4	...	...	...	
	L	02 53 37	6	...	...	...	
	F	03 04 50	...	...	...	...	
Feb. 18	P	13 02 05	?	...	...	500	Slight.
	S	13 02 59	2	...	...	...	
	L	13 03 34	4	...	...	...	
	F	13 12 25	...	...	...	...	
Feb. 19	eP	10 31 05	?	...	...	4,000	Slight.
	S	10 36 50	5	...	...	...	
	L	10 43 02	10	...	...	...	
	F	?					
Feb. 22	eP	08 14 32	4	...	...	4,000	Slight
	S	08 20 29	6	...	...	...	
	L	08 26 04	10	...	...	...	
	M	08 13 14	10	11	...	...	
	F	?					
Feb. 24	P	06 32 45	6	...	...	5,900	Great.
	S	06 40 20	10	...	...	...	
	eL	06 51 ...	20	...	...	...	
	$M1_1$	06 55 50	20	134	...	...	
	M_2	06 59 15	20	143	...	...	
	F	?					
Feb. 24	P	15 24 57	?		...	480	Slight
	S	15 25 49	2	...	...	...	
	L	15 26 09	4	...	...	...	
	F	15 45 29	...	...	...	...	

TABLE D 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	Amplitude (μ) AE.	Distance △ (Km.)	Remarks.
1934.		H. M. S.					
Feb. 25	eP	16 32 13	5	...	...	4,300	Slight.
	S	16 38 20	9	...	...	...	
	L	16 44 50	12	...	...	...	
	M	16 51 10	12	13	...	...	
	F	17 33 50	...	...	...	...	
Feb. 27	P	21 43 16	3	...	...	4,800	Slight.
	S	21 49 46	6	...	...	...	
	L	21 57 28	10	...	...	...	
	M	22 00 43	10	13	...	...	
	F	22 35 33	...	...	...	...	
Feb. 28	P	14 33 40	4	...	...	7,550	Moderate.
	S	14 42 44	...	...	...	...	
	PS	14 43 15	6	...	...	...	
	L	14 55 05	10	...	...	...	
	Mn	15 11 23	17	96	...	...	
	P	15 08 40	...	...	...	...	
Mar. 1	P^1	22 05 35	4	...	...	17,400	Slight.
	Sc Pc PcS	22 16 05	5	...	...	...	
	SR_1	22 29 32	...	...	...	...	
Mar. 2	F	00 02 25	...	...	...	...	
Mar. 3	P	01 38 42	2	...	...	1,650	Slight.
	S	01 41 37	7	...	...	...	
	L	01 42 53	10	...	...	...	
	F	02 06 03	...	...	...	...	
Mar. 3	P	16 11 31	...	...	...	...	Tremor.
Mar. 4	eP	11 27 58	?	...	...	6,500	Slight.
	S	11 35 59	7	...	...	...	
	L	11 48 42	10	...	...	...	
	M	11 55 27	15	25	...	...	
	F	13 00 12	...	...	...	...	
Mar. 5	eP	12 02 32	6	...	...	12,150	Great.
	PR	12 10 24	8	...	...	...	
	Sc Pc S	12 13 06	9	...	...	...	
	SR_1	12 21 31	10	...	...	...	
	eL	12 40 16	17	...	...	...	
	M	12 49 26	20	44	...	...	
	F	16 20 09	...	...	...	...	
Mar. 7	P	16 1 29	...	...	...	...	Tremor.
Mar. 11	P	19 15 16	2	...	...	2,000	Slight.
	S	19 18 34	6	...	...	...	
	L	19 20 37	7	...	...	...	
	M	19 22 52	10	11	...	...	
	F	?	...	...	...	...	
Mar. 12	eP	15 31 04	6	...	...	10,800	Slight.
	eS	15 42 36	8	...	...	...	
	L	16 08 14	10	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). AN.	Amplitude (μ). AE.	Distance △ (Km.)	Remarks.
1934.		H. M. S.					
Mar. 12	M	16 18 04	16	10	...	...	
	F	?	...	...	...	...	
Mar. 13	P	13 25 25	5	...	...	10,400	Slight.
	S	13 36 41	7	...	...	...	
	L	14 00 45	9	...	...	...	
	M	14 03 05	14	6	...	...	
	F	16 53 29	...	...	...	...	
Mar. 16	P	14 22 04	4	...	...	3,300	Slight.
	S	14 27 07	7	...	...	...	
	L	14 31 19	9	...	...	...	
	F	?	...	...	...	...	
Mar. 18	P	04 42 31	3	...	...	6,700	Slight.
	S	04 50 42	5	...	...	...	
	eL	05 03 52	7	...	...	...	
	F	?	...	...	...	...	
Mar. 19	P	03 40 06	5	...	...	2,400	Slight.
	S	03 44 06	6	...	...	...	
	L	03 46 32	7	...	...	...	
	F	?	...	...	...	...	
Mar. 20	P	02 51 23	5	...	...	4,750	Slight.
	S	02 57 53	8	...	...	...	
	L	03 05 24	12	...	...	...	
	F	04 12 42	...	...	...	...	
Mar. 24	P	12 14 20	5	...	...	750	Moderate.
	S	12 24 20	10	...	...	...	
	eL	12 40 ...	18	...	...	...	
	M	12 45 30	18	12	...	...	
	F	16 13 50	...	...	...	...	
Mar. 25	P	12 47 10	4	...	...	1,450	Slight.
	S	12 49 40	5	...	...	...	
	L	12 50 48	7	...	...	...	
	F	?	...	...	...	...	
Mar. 26	P	03 01 17	?	...	...	60	Slight.
	S	03 02 17	2	...	...	...	
	L	03 02 41	4	...	...	...	
	F	?	...	...	...	...	
Apr. 3	P	22 41 21	...	...	...	...	Tremor.
Apr. 5	P	10 41 45	...	...	...	...	Do.
Apr. 6	P	19 18 04	2	...	...	4,900	Slight (Insc. changed from N. S. to E. W.)
	S	19 24 44	4	...	...	...	
	eL	19 31 24	7	...	...	...	
	F	?	...	...	...	...	
Apr. 8	P	20 54 06	?	...	...	350	Slight.
	S	20 54 44	?	...	...	...	

TABLE D 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AR.	Amplitude (μ) AE.	Distance △ (Km.)	Remarks.
		H. M. S.					
1934.							
Apr. 8	L	20 54 59	?	..	...	...	
	F	21 01 39	...	...	...	...	
Apr. 10	P	10 30 42	5	...	...	4,500	Moderate
	S	10 36 55	7	...	...	...	
	L	10 44 15	9	...	...	...	
	M	10 48 20	18	...	43	...	
	F	?	...	...	...	...	
Apr. 11	P	21 25 21	4	...	...	8,100	Slight.
	S	21 34 41	6	...	...	...	
	eL	21 52 13	?	...	...	...	
	F	?	...	...	...	...	
Apr. 12	P	03 27 17	?	...	...	2,550	Slight.
	S	03 31 07	4	...	...	...	
	L	03 34 47	6	...	...	...	
	M	03 36 17	18	...	19	...	
	F	?	...	...	...	...	
Apr. 12	P	09 14 16	5	...	...	900	Slight.
	S	09 16 ...	10	...	...	...	
	eL	09 16 27	?	...	...	...	
	F	?	...	...	...	...	
Apr. 13	P	04 40 17	?	...	...	300	Slight.
	S	04 40 47	?	...	...	...	
	L	04 40 57	5	...	...	...	
	F	?	...	...	...	...	
Apr. 13	P	23 05 00	?	...	...	450	Slight.
	S	23 05 50	?	...	...	...	
	L	23 06 05	4	...	...	...	
	F	?	...	...	...	...	
Apr. 14	P	01 37 35	...	...	...	...	Tremor.
Apr. 15	P	22 23 21	6	...	...	4,950	Great.
	S	22 29 55	10	...	...	...	
	L	22 38 35	15	...	...	...	
	M_1	22 41 47	18	...	395	...	
	M_2	22 46 07	18	...	360	...	
	F	?	...	...	...	...	
Apr. 16	eP	13 51 20	2	...	...	4,350	Slight.
	S	13 57 24	6	...	...	...	
	L	14 04 07	10	...	...	...	
	F	?	...	...	...	...	
Apr. 19	P	23 36 30	2	...	...	2,000	Slight.
	S	23 39 52	5	...	...	...	
	L	23 41 34	6	...	...	...	
	F	23 54 49	...	...	...	...	
Apr 19	P	23 44 54	?	...	...	200	Slight.
	S	23 45 17	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AR.	Amplitude (μ) AE.	Distance △ (Km.)	Remarks.
		H. M. S.					
1934.							
Apr. 19	L	?	...	...	...	...	
	F	?	...	...	...	...	
Apr. 26	P	13 46 55	5	...	...	4,700	Slight.
	S	13 53 55	6	...	...	...	
	L	14 04 25	8	...	...	...	
	M	14 08 18	12	...	...	...	
	F	?	...	...	...	...	
Apr. 26	P	21 13 28	5	...	...	9,450	Slight.
	S	21 23 53	7	...	...	...	
	eL	21 43 48	9	...	...	...	
	F		...	...	...	...	
Apr. 27	P	20 59 58	4	...	...	10,650	Slight.
	S	21 11 18	8	...	...	...	
	eL	21 32 08	10	...	...	...	
	F	23 35 13	...	...	...	...	
Apr. 29	P	03 22 ...	...	...	...	...	Tremor.
May 1	P	03 44 38	3	...	...	2,550	Moderate.
	S	03 48 48	4	...	...	...	
	L	03 51 04	6	...	...	...	
	M	?	...	...	...	...	
	F	?	...	...	...	...	
May 1	P	07 09 15	3	...	...	2,300	Moderate
	S	07 13 05	4	...	...	...	
	L	07 15 05	7	...	...	...	
	M	?	...	...	...	...	
	F	?	...	...	...	...	
May 4	P	04 48 42	4	...	...	11,100	Great.
	Sc Pc S	04 59 13	8	...	...	...	
	eL	05 22 53	10	...	...	...	
	M	05 29 33	23	...	226	...	
	F	07 38 25	...	...	...	...	
May 13	P	09 13 21	4	...	...	7,550	Slight
	S	09 22 25	6	...	...	...	
	L	09 35 17	8	...	...	...	
	F	?	...	...	...	...	
May 14	P	22 25 37	3	...	...	9,150	Slight.
May 14	S	22 35 55	4	...	...	...	
	L	22 53 22	7	...	...	...	
	M	?	...	...	...	...	
	F	23 43 25	...	...	...	...	
May 22	...	...	...	...	...	...	Tremor, lost in microseism.
May 30	P	23 08 18	6	...	...	2,000	Slight.
	S	23 11 28	8	...	...	...	
	L	23 13 48	10	...	...	...	
	M	23 15 28	10	...	7	...	
	F	23 31 58	...	...	...	...	

TABLE D 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec).	Amplitude (μ). AN.	Amplitude (μ). AE.	Distance △ (Km.)	Remarks.
1934.		H. M. S.					
June 1	P	19 27 04	?	...	...	300	Slight.
	S	19 27 31	?	...	...	...	
	L	19 27 43	3	...	...	...	
	F	?	...	...	...	...	
June 2	P	05 55 53	1	...	...	650	Moderate (Omori E.-W. inst.)
	S	05 57 0	2	...	...	...	
	L	05 57 26	4	...	...	...	
	M	?	...	...	...	...	
	F	?	...	...	...	...	
June 2	P	05 55 53	1	...	...	650	Moderate (Omori N.-S. inst.)
	S	05 57 03	2	...	...	...	
	L	05 57 23	4	...	...	...	
	M	?	...	...	...	...	
	F	06 45 35	...	...	...	...	
June 2	P	14 05 16	3	...	...	6,250	Slight.
	S	14 13 02	5	...	...	...	
	L	14 25 02	12	...	...	...	
	M	14 27 46	13	...	9	...	
	F	?	...	...	...	...	
June 4	eP	05 56 32	3	...	...	2,750	Slight.
	S	06 00 56	4	...	...	...	
	L	06 03 52	5	...	...	...	
	M	06 05 12	7	...	10	...	
	F	?	...	...	...	...	
June 5	P	13 08 10	2	...	...	1,600	Slight.
	S	13 11 00	3	...	...	...	
	L	13 12 20	6	...	...	...	
	M	13 13 55	6	...	8	...	
	F	13 42 20	...	...	...	...	
June 9	P	13 09 51	4	...	...	3,100	Slight.
	S	13 14 51	6	...	...	...	
	L	13 17 55	8	...	...	...	
	M	13 19 05	8	...	15	...	
	F	?	...	...	...	...	
June 13	P	22 15 28	5	...	...	2,850	Great (Omori E.-W. inst.)
	S	22 20 02	6	...	...	...	
	L	22 23 12	8	...	...	...	
	M	22 25 42	18	...	1,552	...	
	F	?	...	...	...	...	
June 13	P	22 15 28	3	...	...	2,850	Great (Omori N.-S. inst.)
	S	22 20 02	4	...	...	...	
	L	22 23 10	6	...	...	...	
	M	22 24 08	15	1,517	...	...	
	F	?	...	...	...	...	
June 16	P	20 14 11	1	...	...	400	Slight (Omori E.-W. inst.)
	S	?	?	...	...	...	
	L	20 15 07	2	...	...	...	
	F	?	...	...	...	...	
June 16	P	20 14 11	1	...	...	400	Slight (Omori N.-S. inst.)
	S	20 14 55	?	...	...	...	
	L	20 15 07	2	...	...	...	
	F	20 36 37	...	...	...	...	
June 18	P	11 54 05	?	...	...	600	Slight.
	S	11 55 03	?	...	...	...	
	L	11 55 38	3	...	...	...	
	F	?	...	...	...	...	
June 23	P	05 22 08	2	...	...	1,200	Moderate.
	S	05 24 13	2	...	...	...	
	L	05 25 13	?	...	...	...	
	M	?	...	...	...	...	
	F	?	...	...	...	...	
June 24	eP	06 19 30	5	...	...	17,800	Slight.
	PR_1	06 23 47	6	...	...	...	
	SR_1	06 43 53	8	...	...	...	
	eL	07 15 58	15	...	...	...	
	M	07 28 50	20	...	29	...	
	F	08 41 23	...	...	...	...	
June 30	...	...	...	...	...	...	Tremor lost microseism
July 6	e	23 17 39	...	...	...	...	Tremor.
	F	?	...	...	...	...	
July 11	e	11 15 39	...	...	...	...	
	F	?	...	...	...	...	
July 15	P	02 07 11	?	...	...	480	Slight.
	S	02 07 59	?	...	...	...	
	L	02 08 17	?	...	...	...	
	M	?	...	...	...	...	
	F	?	...	...	...	...	
July 15	e	12 32 39	...	...	...	...	Tremor.
	F	?	...	...	...	...	
July 18	P	01 56 25	2	...	...	17,000	Great.
	ScPc P	02 03 21	4	...	...	...	
	SR_1	02 19 48	7	...	...	...	
	SR_2	02 25 37	12	...	...	...	
	eL	02 49 18	15	...	...	...	
	M	02 59 48	30	...	187	...	
	F	?	...	...	...	...	
July 18	e	16 49 39	...	...	...	...	Tremor.
	F	17 06 39	...	...	...	...	
July 18	P'	17 19 34	2	...	...	16,320	Slight.
	PR_1	17 22 59	4	...	...	...	
	SR_1	17 42 01	5	...	...	...	

TABLE D 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). AN.	Amplitude (μ). AE.	Distance △ (Km.)	Remarks.
1934.		H. M. S.					
	eL	18 09 31	6	...	...	...	
	M	18 20 31	15	...	4	...	
	F	19 34 51	...	...	...	...	
July 18	P	19 52 45	4	...	...	9,490	Great.
	S	20 03 19	10	...	...	...	
	Ps	20 04 09	10	...	...	...	
	SR_1	20 08 55	12	...	...	...	
	L	20 21 15	20	...	...	...	
	M	20 27 49	23	...	410	...	
	F	23 44 43	...	...	...	...	
July 19	e	00 19 39	...	...	...	...	Tremor.
	F	?	...	...	...	...	
July 19	eP	01 36 19	?	...	...	5,670	Moderate.
	PR_1	01 39 05	5	...	...	...	
	S	01 43 41	7	...	...	...	
	L	01 53 41	9	...	...	...	
	M	01 57 47	12	...	31	...	
	F	?	...	...	...	...	
July 19	e	05 57 39	...	...	...	...	Tremor.
	F	?	...	...	...	...	
	e	07 50 39	...	...	...	...	Tremor.
	F	?	...	...	...	...	
July 21	P	06 30 36	5	...	...	9,550	Great.
	Ps	06 41 51	8	...	...	...	
	eL	06 58 23	10	...	...	...	
	M	07 05 46	20	...	110	...	
	F	?	...	...	...	...	
July 21	P	10 58 53	4	...	...	19,000	Slight.
	PSe PeS	11 14 33	8	...	...	...	
	eL	11 58 58	23	...	...	...	
	M	12 12 48	23	...	22	...	
	F	?	...	...	...	...	
July 22	P	20 01 30	4	...	...	2,200	Moderate.
	S	20 05 12	5	...	...	...	
	eL	20 06 48	6	...	...	...	
	M	?	...	...	...	...	
	F	?	...	...	...	...	
July 28	P	02 11 04	3	...	...	3,230	Slight.
	S	02 15 59	5	...	...	...	
	L	02 18 59	10	...	...	...	
	M	02 21 52	10	...	29	...	
	F	?	...	...	...	...	
July 31	e	06 04 39	...	...	...	...	Tremor.
	F	?	...	...	...	...	Do.
July 31	e	11 55 22	...	...	...	...	Do.
	F	?	...	...	...	...	Do.

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). AN.	Amplitude (μ). AE.	Distance △ (Km.)	Remarks.
1934.		H. M. S.					
Aug. 7	P	03 52 38	...	...	...	9,410	Slight.
	S	04 03 06	6	...	...	...	
	SR_1	04 08 53	6	...	...	...	
	L	04 19 43	16	...	...	...	
	M_1	04 26 53	20	...	17	...	
	M_2	04 29 33	20	...	23	...	
	F	06 58 39	...	...	...	...	
Aug. 7	P	11 55 15	2	...	...	2,870	Slight.
	eS	11 59 49	5	...	...	...	
	L	12 02 25	13	...	...	...	
	M	12 03 35	13	...	18	...	
	F	12 57 35	...	...	...	...	
Aug. 11	P	08 23 36	4	...	...	4,020	Moderate.
	S	08 29 25	6	...	...	...	
	SR_1	08 31 33	7	...	...	...	
	eL	08 34 19	9	...	...	...	
	M	08 37 19	12	...	110	...	
	F	09 31 34	...	...	...	...	
Aug. 11	e	12 09 09	...	...	...	...	Tremor.
	F	?	...	...	...	...	
Aug. 12	e	04 52 39	...	...	...	...	Tremor.
	F	?	...	...	...	...	
Aug. 12	P	23 57 01	3	...	...	4,810	Great.
	PR_1	23 58 33	5	...	...	...	
Aug. 13	SR_1	00 06 25	6	...	...	...	
	eL	00 09 51	10	...	...	...	
	M_1	00 13 34	20	...	128	...	
	M_2	00 14 34	20	...	157	...	
	M_3	00 16 14	20	...	198	...	
	F	?	...	...	...	...	
Aug. 21	P	19 31 06	4	...	...	4,410	Moderate.
	PR_1	19 32 29	5	...	...	...	
	SR_1	19 39 46	6	...	...	...	
	eL	19 43 01	8	...	...	...	
	M	19 46 21	15	...	28	...	
	F	?	...	...	...	...	
Aug. 22	e	06 52 09	...	...	...	...	Tremor.
	F	?	...	...	...	...	Do.
	e	10 35 09	...	...	...	...	Do.
	F	?	...	...	...	...	Do.
Aug. 24	P	07 14 38	4	...	...	530	Slight.
	P	07 14 56	4	...	...	...	
	S	07 15 34	?	...	...	...	
	L	07 16 04	6	...	...	...	
	M	?	...	...	...	...	
	F	07 31 38	...	...	...	...	

TABLE D 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	Amplitude (μ) AE.	Distance △ (Km.)	Remarks.
1934.		H. M. S.					
Aug. 29	P	03 43 54	?	...	...	330	Moderate ; reported to have been felt in North Bihar, Darjeeling, etc.
	S	03 44 28	?	...	...	...	
	L	03 44 42	?	...	...	...	
	M	?	...	...	...	...	
	F	?	...	...	...	...	
Aug. 31	P	05 15 07	3	...	...	9,710	Slight.
	So Pc S	05 25 21	5	...	...	...	
	L	05 44 13	8	...	...	...	
	M	05 51 43	20	...	23	...	
	F	06 49 43	...	...	...	...	
Aug. 31	P	15 01 58	3	...	...	2,490	Great.
	S	15 06 03	5	...	...	...	
	L	15 08 58	10	...	...	...	
	M	15 10 58	16	...	246	...	
	F	16 38 33	...	...	...	...	
Sep. 1	P	12 40 20	3	...	...	2,010	Slight.
	S	12 43 45	4	...	...	...	
	L	12 45 08	5	...	...	...	
	F	?	...	...	...	...	
Sep. 3	e	09 23 39	...	...	...	...	Tremor.
Sep. 4	e	16 38 39	...	...	...	...	,,
Sep. 8	P	06 49 49	3	...	...	2,430	Slight.
	PR_1	06 50 12	4	...	...	...	
	S	06 58 51	5	...	...	...	
	SR_1	06 54 37	6	...	...	...	
	L	06 55 39	6	...	...	...	
	F	07 27 5	...	...	...	...	
Sep. 9	P	05 06 17	3	...	...	840	Slight.
	S	05 07 48	4	...	...	...	
	eL	05 08 26	5	...	...	...	
	F	05 32 17	...	...	...	...	
Sep. 11	e	08 27 39	...	...	...	...	Tremor.
Sep. 11	e	14 19 39	...	...	...	...	,,
Sep. 12	e	14 35 39	...	...	...	...	,,
Sep. 12	e	17 58 39	...	...	...	...	,,
Sep. 13	e	14 36 39	...	...	...	...	,,
Sep. 15	e	08 08 39	...	...	...	...	,,
Sep. 17	e	17 19 39	...	...	...	...	,,
Sep. 17	P	18 43 33	3	...	...	1,680	Slight.
	eS	18 46 25	4	...	...	...	
	L	18 47 36	7	...	...	...	
	F	19 06 07	...	...	...	...	
Sep. 21	P	12 43 34	3	...	...	3,070	Moderate.

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	Amplitude (μ) AE.	Distance △ (Km.)	Remarks.
1934.		H. M. S.					
	S	12 48 22	6	...	...	...	
	L	12 51 18	7	...	...	...	
	M	?	...	...	...	...	
	F	13 25 41	...	...	...	...	
Sep. 25	e	01 29 39	...	...	...	...	Tremor.
Sep. 23	P	08 52 08	4	...	...	270	Slight.
	eS	08 52 39	?	...	...	...	
	L	08 52 46	?	...	...	...	
	F	08 56 39	...	...	...	...	
Sep. 26	One slight shock ; could not be calculated owing to congestion of li lines						
Sep. 26	e	01 11 39	...	...	...	...	Tremor
Sep. 27	eP	23 00 18	3	...	...	2,260	Slight
	S	23 03 58	5	...	...	...	
	L	23 06 01	7	...	...	...	
	F	23 18 18	...	...	...	...	
Oct. 1	e	17 18 57	...	...	...	...	Tremor.
Oct. 5	e	10 00 34	...	...	...	...	,,
Oct. 5	e	20 34 44	...	...	...	...	,,
Oct. 6	e	14 07 30	...	...	...	...	,,
Oct. 10	e	09 16 19	...	...	...	...	,,
Oct. 10	P	15 57 04	5	...	...	6,050	Moderate.
	S	16 04 49	6	...	...	...	
	SR_2	16 10 09	6	...	...	...	
	eL	16 13 57	9	...	....	...	
	F	17 39 40	...	...	...	...	
Oct. 15	e	08 32 01	...	...	...	...	Tremor
Oct. 18	P	08 00 47	4	...	...	9,210	Slight.
	S	08 11 06	7	...	...	...	
	eL	08 28 11	8	...	...	...	
	M	08 35 03	28	...	52	...	
	F	?	...	...	...	...	
Oct. 19	P	21 01 16	4	...	...	1,100	Moderate
	P*	21 01 48	...	...	...	...	
	P	21 02 8	...	...	...	...	
	S	21 03 18	6	...	...	...	
	SR_1	21 03 40	...	...	...	...	
	S*	21 03 58	...	...	...	...	
	S	21 04 32	...	...	...	...	
	L	21 04 50	8	...	...	...	
	Mn	21 08 05	...	...	29	...	
	F	21 54 08	...	...	...	...	
Oct. 20	e	04 27 11	...	...	...	...	Tremor
Oct. 20	e	08 21 14	...	...	...	...	,,

TABLE D 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	Amplitude (μ) AE.	Distance △ (Km.)	Remarks.
		H. M. S.					
1934.							
Oct. 21	P	18 02 48	4	...	...	4,520	Slight.
	S	18 09 09	6	...	...	...	
	L	18 14 48	9	...	...	...	
	F	18 54 28	...	...	...	...	
Oct. 21	eP	19 10 08	?	...	...	440	Slight.
	S	19 10 56	?	...	...	...	
	L	19 11 14	?	...	...	...	
	F	19 22 15	...	...	...	...	
Oct. 22	eP	01 10 04	?	...	...	550	Slight.
	S	?	?	...	...	...	
	L	01 11 12	2	...	...	...	
	F	?	...	...	...	...	
Oct. 25	eP	01 35 54	2	...	...	790	Slight.
	S	01 37 09	3	...	...	...	
	L	01 38 01	5	...	...	...	
	F	?	...	...	...	...	
Oct. 26	P	14 52 01	3	...	...	4,020	Slight.
	PR_1	14 53 11	4	...	...	...	
	S	14 58 00	5	...	...	...	
	L	15 02 34	6	...	...	...	
	F	15 28 17	...	...	...	...	
Oct. 26	P	17 18 40	2	...	...	4,255	Moderate.
	PR_1	17 19 58	2	...	...	...	
	PR_2	17 20 25	3	...	...	...	
	S	17 24 44	4	...	...	...	
	SR_1	17 27 05	5	...	...	...	
	L	17 27 40	8	...	...	...	
	Mn	17 41 28	15	...	22	...	
	F	18 40 13	...	...	...	...	
Oct. 29	P	16 23 01	4	...	...	4,155	Slight.
	PR_1	16 24 12	4	...	...	...	
	PR_2	16 24 47	4	...	...	...	
	S	16 28 59	6	...	...	...	
	SR_1	16 31 10	6	...	...	...	
	SR_2	16 31 51	6	...	...	...	
	eL	16 34 02	9	...	...	...	
	Mn	16 45 17	14	...	...	...	
	F	17 23 48	...	...	...	...	
Nov. 2	P	15 20 59	3	...	...	550	Slight.
	S	15 21 54	4	...	...	...	
	L	15 22 22	9	...	...	...	
	F	15 41 20	...	...	...	...	
Nov. 3	eP	06 48 41	3	...	...	500	Slight.
	S	06 49 31	4	...	...	...	
	L	06 50 00	...	...	...	...	
	F	07 07 49	...	...	...	...	
Nov. 3	e	13 34 05	...	...	...	...	Tremor.
1934.		H. M. S.					
Nov. 4	e	02 11 44	...	...	...	...	Tremor.
	e	03 38 58	...	...	...	...	"
Nov. 5	P	23 14 10	5	...	...	9,050	Slight.
	S	23 24 25	7	...	...	...	
	L	23 40 59	12	...	...	...	
	F	Masked by microseisms.					
Nov. 11	P	04 17 20	...	...	...	500	Slight.
	S	04 18 13	...	...	...	...	
	eL	04 18 32	5	...	...	...	
	F	Masked by microseisms.					
	e	21 30 14	...	...	...	...	Tremor.
Nov. 15	P	23 19 32	2	...	...	2,250	Slight.
	S	23 23 18	3	...	...	...	
	eL	23 24 55	4	...	...	...	
	F	23 55 38	...	...	...	...	
Nov. 16	eP	13 53 50	3	...	...	6,830	Slight.
	S	14 02 18	5	...	...	...	
	SR_2	14 06 29	7	...	...	...	
	eL	14 13 22	10	...	...	...	
	F	15 22 06	...	...	...	...	
Nov. 18	P	03 25 49	2	...	...	2,220	Great.
	PR_1	03 26 10	2	...	...	...	
	S	03 29 32	3	...	...		
	SR_1	03 30 15	4	...	...	...	
	eL	03 31 10	5	...	...	...	
	M	Uncertain due to failure of photographic registration.					
	F	Lost in shifting.					
Nov. 18	e	09 32 41	...	...	...	...	Tremor.
" 18	P	22 51 18	5	...	...	7,450	Slight.
	S	23 00 18	7	...	...	...	
	PS	23 00 49	7	...	...	...	
	eL	23 12 41	8	...	...	...	
	F	Masked by microseisms.					
Nov. 19	e	10 09 43	...	...	...	...	Tremor
Nov. 22	P	22 29 40	3	...	...	3,320	Slight.
	S	22 34 44	4	...	...	...	
	L	22 38 18	5	...	...	...	
	F	22 55 54	...	...	...	...	
Nov. 23	P	09 39 54	3	...	...	590	Slight.
	S	09 40 34	4	...	...	...	
	L	09 40 51	5	...	...	...	
	F	10 04 34	...	...	...	...	
Nov. 24	eP	12 48 19	5	...	...	9,150	Slight.
	eS	12 58 34	7	...	...	...	
	eL	13 15 39	...	...	...	...	
	F	14 21 39	...	...	...	...	

TABLE D 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude μ. AN.	Amplitude μ. AE.	Distance △ (K-m.)	Remarks.
		H. M. S.					
1934.							
Nov. 26	P	12 15 37	5	...	...	3,300	Slight.
	S	12 20 40	7	...	...	...	
	SR_1	12 22 08		...	...	...	
	eL	12 24 10	10	...	...	...	
	M	12 30 30	15	...	17	...	
	F	13 39 10	...	...	...	...	
Nov. 27	P	06 22 12	2	...	...	4,620	Slight.
	S	06 28 37	4	...	...	...	
	SR_2	06 32 07	4	...	...	...	
	eL	06 34 32	6	...	...	...	
	F	Masked by microseisms.					
Nov. 27	e	19 58 44	...	...	...	...	Tremor.
Nov. 29	e	22 39 24	4	...	...	...	Slight.
	e	22 41 22	9	...	...	...	
	M	22 44 42	12	...	11	...	
	F	23 03 12	...	...	...	...	
Nov. 30	e	02 24 58	5	...	...	...	Moderate; very distant.
	eL	03 10 28	12	...	...	...	Phases not discernible owing to overlapping of lines.
	M	03 20 48	20	...	34	...	
	F	04 45 08	...	...	...	...	
Dec. 4	e	17 44 49	4	...	...	...	Slight; very distant.
	i	17 56 01	5	...	...	...	
	F	19 35 17	...	...	...	...	
Dec. 9	e	11 30 55	4	...	...	...	Slight.
	M	11 45 55	17	...	9	...	
	F	12 13 45	...	...	...	...	
	e	22 06 54	...	...	...	...	Tremor.
Dec. 13	eP	01 07 09	...	...	...	2,200	Slight.
	S	01 10 52	3	...	...	...	
	eL	01 12 21	6	...	...	...	
	M	01 14 18	10	...	12	...	
	F	01 27 00	...	...	...	...	
Dec. 14	e	11 20 29	...	...	...	...	Tremor.
Dec. 14	eP	20 44 54	2	...	...	890	Moderate.
	S	20 46 29	3	...	...	...	
	L	20 47 26	4	...	...	...	
	M_1	20 48 51	5	...	30	...	
	M_2	20 49 41	5	...	32	...	
	F	21 38 41		...	...	...	
Dec. 15	P	01 59 55	3	...	...	950	Very great.
	S	02 01 35	5	...	...	...	
	L	02 02 19	10	...	...	...	
	M	Maximum movements not recorded.					
	F	04 46 31	...	...	...	...	
	e	06 31 54	...	...	...	...	Tremor.
	e	07 10 33	...	...	...	...	,,

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	Amplitude (μ) AE.	Distance △ (Km.)	Remarks.
		H. M. S.					
1934.							
Dec. 15	e	07 25 11	...	...	...	...	Tremor.
	e	10 30 51	...	...	...	...	,,
	e	17 55 14	...	...	...	...	,,
	eP	19 29 19	3	...	...	6,230	Slight.
	S	19 37 14	5	...	...	...	
	SR_1	19 41 05	5	...	...	...	
	eL	19 46 49	7	...	...	...	
	F	20 40 49	...	...	...	...	
Dec. 16	e	00 31 13	...	...	...	...	Tremor.
	e	16 14 26	...	...	...	...	,,
	e	19 12 29	...	...	...	...	,,
	e	20 43 35	...	...	...	...	,,
	e	23 39 48	...	...	...	...	,,
Dec. 17	e	03 52 02	...	...	...	...	,,
	e	06 50 16	...	...	...	...	,,
	e	09 20 14	...	...	...	...	,,
	e	14 44 40	...	...	...	...	,,
Dec. 17	eP	16 03 18	4	...	...	7,000	Slight.
	PR_2	16 06 55	5	...	...	...	
	S	16 11 55	6	...	...	...	
	SR_2	16 18 29	7	...	...	...	
	F	17 28 12	...	...	...	...	
Dec. 17	e	21 35 08	...	...	...	...	Tremor.
	e	22 12 37	...	...	...	...	Slight.
	i	22 13 07	...	...	...	...	
	F	?	...	...	...	...	
Dec. 18	eP	11 24 28	2	...	...	890	Moderate.
	S	11 26 03	4	...	...	...	
	L	11 26 53	8	...	...	...	
	M	Maximum movemnts not recorded.					
	F	12 25 26	...	...	...	...	
Dec. 19	eP	03 06 14	...	...	...	900	Slight.
	eS	03 07 50	...	...	...	...	
	L	03 08 37	5	...	...	...	
	F	Masked by microseisms.					
Dec. 21	eP	06 36 44	2	...	...	950	Slight.
	S	06 38 24	3	...	...	...	
	L	06 39 13	5	...	...	...	
	M	06 40 03	5	...	16	...	
	F	07 06 15	...	...	...	...	
Dec. 21	eP	12 41 14	3	...	...	920	Moderate.
	S	12 42 52	4	...	...	...	
	L	12 43 34	5	...	...	...	
	M	12 45 11	6	...	39	...	
	F	13 30 02	...	...	...	...	
Dec. 22	eP	10 59 59	3	...	...	4,080	Slight.
	S	11 05 49	5	...	...	...	

TABLE D 3—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	Amplitude (μ) AE.	Distance △ (Km.)	Remarks.
1934.		H. M. S.					
Dec. 20	L	11 10 54	15	...	...	...	
	M	11 13 29	15	...	12	...	
	F	12 08 14	...	...	...	...	
	e	14 49 26	7	...	...	...	Slight ; very distant.
	M	15 57 06	23	...	...	...	
	F	17 07 06	...	...	...	...	
Dec. 23	e	10 13 05	5	...	...	...	Slight ; very distant.
	F	11 58 25	...	...	...	...	
Dec. 27	eP	12 36 16	3	...	...	1,810	Slight.
	S	12 39 16	5	...	...	...	
	L	12 40 30	8	...	...	...	
	M	12 41 30	8	...	7	...	
	F	13 01 06	...	...	...	...	
Dec. 27	eP	13 42 08	2	...	...	2,140	Slight.
	S	13 45 45	4	...	...	...	
	L	13 47 19	5	...	...	...	
	M	13 49 06	5	...	8	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	Amplitude (μ) AE.	Distance △ (Km.)	Remarks.
1934.		H, M. S.					
	F	14 11 08	...	...	...	...	
Dec. 28	eP	11 43 50	4	...	...	10,820	Slight.
	eL	12 16 45	18	...	...	...	
	F	Not discernible.					
Dec. 30	eP	14 12 19	4	...	...	12,290	Slight.
	S	14 24 34	6	...	...	...	
	SR_2	14 32 24	7	...	...	...	
	L	14 50 39	15	...	...	...	
	M	14 59 39	15	...	7	...	
	F	16 26 39	...	...	...	...	
Dec. 31	P	19 06 24	5	...	...	14,350	Moderate.
	eS	19 19 38	6	...	...	...	
	PPs	19 23 07	7	...	...	...	
	SR_3	19 33 57	10	...	...	...	
	L	19 51 02	14	...	...	...	
	M	20 00 57	20	...	47	...	
	F	22 21 47	...	...	...	...	

Alipore Observatory,
CALCUTTA.

S. N. SEN,
Meteorologist.

STATION—KODAIKANAL.

Lat. 10° 14′, Long. 77° 28′.

Height above M. S. L. 2,343 m. Lighologic Foundation ; Rock.

Instruments ; Milne-Shaw (Magnetic damping.)

INSTRUMENTAL CONSTANTS.

Compt.	Steady mass Kg.	T. (sec.).		Vm	E	Paper speed mm/min.
E	0·45	Jan.	11·30	250	20 : 1	8
		Feb.	11·75			
		Mar.	12·30			
		April	12·30			
		May-July	11·00			
		Aug.-Dec.	11·50			

TABLE D. 4.

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. m. S.	Sec.	m.m.	Km.	
Jan. 2nd	E	P	21 01 28	...	...	...	
		S	21 06 44	...	...	...	
		L	21 12 34	...	...	...	
		M	21 14 13	...	0.6	3,500	
		F	21 36 00	...	...	...	
Jan. 3rd	E	iP	09 53 45	...	...	7,730	
		S	10 02 57	...	...	...	
		L	?	...	...	...	
		M	?	...	...	...	
		F	10 37 00	...	...	...	
Jan. 11th			Lines overlapping.				Local Shock.
Jan. 12th			Lines overlapping.				
Jan. 15th	E	iP	08 47 36	...	...	2,380(?)	
		S	08 51 32(?)	...	...	...	
			Light thrown off at 08 h 51 m 32 s, probably beginning of S.				
Jan. 16th	E	S	05 06 35	...	...	...	Beginning not clear.
		L	05 08 36	...	...	...	
Jan. 16th	E	iP	18 38 18	...	...	5,100	
		PR_1	18 40 05(?)	...	...	...	
		S	18 45 08	...	...	...	
		M	?	...	...	...	
		F	19 25 00	...	...	...	
Jan. 19th	E	P ?	18 57 40	...	...	...	Record very faint, phases not clear Tremors.
		F ?	19 12 00	...	...	...	
Jan. 20th			Lines overlapping.				
Jan. 22nd			Ditto.				
Jan. 27th			Ditto.				

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S	Sec.	m.m.	Km.	
Jan. 29th	E	P^1	19 30 00	...	...	17,120	
		PR_1	19 33 52?	...	...	...	
		L	20 27 43	...	...	...	
		M	20 44 53	...	1·2	...	
		F	21 33 00	...	...	...	
Feb. 2nd	E	P	15 15 22	...	...	6,380	
		S	15 23 24	...	...	...	
		L	15 30 19	...	...	...	
		M	15 40 07	...	0·4	...	
		F	16 20 00	...	...	...	
Feb. 3rd			Lines overlapping.				
Feb. 4th			Ditto.				
Feb. 5th			Ditto.				
Feb. 5th			Ditto.				
Feb. 9th	E	P	09 45 33	...	...	...	Tremor.
		F	10 21 00	...	...	...	
Feb. 10th	E	P	03 24 29	...	...	...	Tremor.
		F	04 27 00	...	...	...	
Feb. 11th			No minute marks.				Tremor.
Feb. 12th	E	P	11 36 19	...	...	2,845	
		S	11 40 51	...	...	...	
		L	11 46 31	...	...	...	
		M	11 55 27	...	1·1	...	
		F	12 41 00	...	...	...	
Feb. 14th			No minute marks.				Tremors.
Feb. 14th	E	iP	04 07 22	...	...	4,000	

TABLE D 4—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	m.m.	Km.	
		iS	04 13 09	...	...	...	
		iL	04 18 23	...	...	...	
		M	?	...	...	...	
		F	07 48 00	...	...	...	
Feb. 16th	E	P	06 46 37	...	...	...	Tremor.
		F	08 03 00	...	...	...	
Feb. 19th	E	iP	10 30 27	...	...	2,900	
		iS	10 35 03	...	...	...	
		iL	10 37 35	...	...	...	
		M	10 44 18	...	4·9	...	
		F	...	...	...	...	
Feb. 21st			Lines overlapping.				Tremor.
Feb. 22nd	E	S	08 21 00	...	...	4,320	
		SR_3	08 24 00	...	...	...	
		M	08 32 58	...	1·1	...	
		F	09 37 00	...	...	...	
Feb. 24th	E	iP	06 34 22	...	...	6,915	
		iS	06 42 55	...	...	...	
		iL	06 56 18	...	...	...	
		M	07 01 15	...	16·6	...	
		F	10 34 00	...	...	...	
Feb. 26th			Lines overlapping.				
Feb. 27th			Ditto.				
Feb. 28th	E	P	14 33 17	...	...	8,495	
		iS	14 43 06	...	...	...	
		L	14 49 14	...	...	...	
		M	15 06 18	...	1·1	...	
		F	16 45 00	...	...	...	
Feb. 28th	E	P	22 25 35	...	...	...	Tremors.
		F	22 47 00	...	...	...	
Mar. 3rd			Lines overlapping.				
Mar. 4th	E	P	06 18 55	...	...	...	Tremor.
		F	06 30 00	...	...	...	
Mar. 4th	E	P	11 39 00	...	...	...	Tremor. No minute marks, times approximate.
		F	12 43 00	...	...	...	
Mar. 5th			Lines overlapping.				
Mar. 9th			Ditto.				Tremors.
Mar. 12th	E	P	15 26 47	...	...	...	
		iS (?)	15 44 00	...	...	...	
		L	16 07 00	...	...	...	
		M	16 15 26	...	1·0	...	
		F	17 38 00	...	...	...	
Mar. 13th	E	i	13 24 54	...	...	...	
		i	13 35 15	...	...	...	
		M	14 09 21	...	1·0	...	
		F	16 11 00	...	...	...	
Mar. 14th	E	P	10 31 03	...	...	...	Tremor.
		F	11 32 00	...	...	...	
Mar. 15th	E	P	11 05 07	...	...	...	Tremor.
		F	12 35 00	...	...	...	
Mar. 16th			Lines overlapping.				
Mar. 18th	E	iP	04 44 53	...	...	8,100	
		iS	04 54 24	...	...	...	
		L	?	...	...	...	
		M	?	...	...	...	
		F	05 41 00	...	...	...	
Mar. 19th	E	P	03 34 24	...	...	...	Tremor.
		F	03 57 00	...	...	...	
Mar. 24th	E	iP	12 17 09	...	...	9,280	
		iS	12 27 32	...	...	...	
		iL	12 56 41	...	...	...	
		M	13 02 06	...	1·4	...	
		F	15 29 00	...	...	...	
Mar. 25th	E	P	12 53 32	...	...	...	Tremor.
		F	13 10 00	...	...	...	
April 5th	E	P	10 48 21	...	...	...	Tremor.
		F	11 06 00	...	...	...	
April 6th	E	P	19 19 58	...	...	...	Tremor.
		F	19 53 00	...	...	...	
April 10th			Lines overlapping.				
April 10th	E	iP	10 30 50	...	...	4,565	
		S	10 37 11	...	...	...	
		L	10 45 26	...	...	...	
		M	10 47 26	...	...	1·4	
		F	11 53 00	...	...	...	
April 11th	E	P	10 04 20	...	...	...	Tremor.
		F	10 21 00	...	...	...	
April 11th	E	P	21 25 46	...	...	...	Feeble shock.
		F	22 58 00	...	...	...	
April 12th	E	P	03 28 42	...	...	...	Tremor.
		F	03 56 00	...	...	...	
April 12th	E	P	09 16 11	...	...	...	Tremor.
		F	09 43 00	...	...	...	
April 14th			Lines overlapping.				Feeble shock.
April 15th	E	iP	22 24 03	...	...	5,400	
		iS	22 31 10	...	...	...	

TABLE D 4—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	m.m.	Km.	
		iL	22 40 06	...	5·6	...	
		M	22 42 13	...	...	...	
April 16th		F	01 36 00	...	...	...	
April 16th	E	P	04 08 08	...	...	...	Feeble shock.
		F	04 59 00	...	...	...	
April 19th	E	P	23 31 12	...	...	...	Tremor.
		F	24 00 00	...	...	...	Tremor.
April 24th	E	P	17 54 15	...	...	...	Tremor.
		F	19 01 00	...	...	...	
April 26th	E	P	05 56 11	...	...	...	Tremor.
		F	06 51 00	...	...	...	
April 26th	E	P	08 22 00	...	...	...	Tremor.
		F	09 22 00	...	...	...	
April 26th	E	iP	13 48 00	...	...	5,027	
		iS	13 54 46	...	...	...	
		L	14 08 05	...	...	...	
		M	...	...	...	...	
		F	14 37 00	...	...	...	
April 26th	E	iP	21 13 32	...	...	9,500	
		iS	21 24 05	...	...	...	
		L	21 48 10	...	...	...	
		M	22 00 43	...	0·3	...	
		F	22 36 00	...	...	...	
April 27th	E	P	20 58 00	...	...	...	Feeble shock.
		F	23 02 00	...	...	...	
April 28th	E	P	15 18 46	...	...	...	Tremor.
		F	15 41 00	...	...	...	
May 1st	E	iP	03 45 06	...	...	2,165	
		iS	03 48 45	...	...	...	
		iL	03 50 45	...	...	...	
		M	03 51 22	...	3·2	...	
		F	04 19 00	...	...	...	
May 1st	E	iP	07 09 37	...	...	2,327	
		iS	07 13 29	...	...	...	
		L	...	...	...	...	
		M	07 14 54?	...	6·5	...	
		F	08 37 00	...	...	...	
May 4th	E	P	04 49 52	...	...	11,290	
		PR_1	04 54 08	...	...	...	
		PS	05 02 56	...	...	..	
		L	05 28 02	...	...	...	
		M	05 38 36	...	5·0	...	
		F	07 57 00	...	...	...	
May 5th	E	P	14 51 00	...	...	...	Tremor.
		F	15 39 00	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	m.m.	Km.	
May 12th	E	P	20 31 06	...	...	2,190	
		S	20 34 47	...	...	...	
		L	20 36 32	...	...	...	
		M	...	...	...	...	
		F	21 21 00	...	...	...	
May 13th	E	P	09 14 00	...	...	8,427	
		S	09 23 46	...	...	...	
		L	09 50 03	...	...	...	
		M	...	...	...	...	
		F	10 50 00	...	...	...	
May 14th	E	P	22 26 40	...	...	...	Tremor.
		F	23 31 00	...	...	...	
May 16th	E	P	09 30 00	...	...	...	Tremor
		F	09 38 00	...	...	...	
May 18th			Lines overlapping.				
May 19th	E	P	01 39 45	...	...	...	
		F	02 42 00	...	...	...	
May 22nd	E	P	01 25 32	...	...	...	
		M	01 50 30	...	2·4	...	
		F	03 50 00	...	...	...	End from the next day's sheet.
May 23rd	E	P	23 18 56	...	...	...	Feeble shock.
		F	23 51 00	...	...	...	
May 27th	E	P	13 31 36	...	...	2,490	
		S	13 35 41	...	...	...	
		L	13 36 25	...	...	...	
		M	13 38 28	...	8·0	...	
		F	14 36 00	...	...	...	
May 31st	E	e	06 23 17	...	...	...	Tremor.
		F	06 41 00	...	...	...	
June 2nd	E	P	05 59 13	...	...	2,265	Moderate.
		S	06 03 ?	...	...	...	
		F	06 34 00	...	...	...	
June 2nd	E	e	14 05 32	...	...	...	Tremor
		F	15 05 00	...	...	...	
June 4th			No minute marks.				Tremors.
June 4th	E	i	06 06 42	...	...	...	Feeble shock.
		F	06 22 00	...	...	...	
June 5th	E	e	11 41 00	...	...	...	Tremors.
		F	11 53 00	...	...	...	
June 5th	E	e	13 16 37	...	...	...	Tremors.
		F	13 35 00	...	...	...	
June 9th	E	P	13 10 00	...	...	7,465	Slight. L-waves poorly developed.
		iS	13 19 00	...	...	...	
		F	14 59 00	...	...	...	

TABLE D 4—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S	Sec.	m. m.	Km.	
June 13th	E	P (?)	02 02 00	...	...	7,200	Feeble shock.
		iS	02 10 48	...	...	...	
		F	02 51 00	...	...	...	
June 14th	E	iP	22 15 21	...	...	2,490	
		iS	22 19 26	...	...	...	
June 15th		F	00 06 00	...	...	...	
June 20th	E	P	09 18 47	...	...	2,680	
		iS	10 21 07	...	...	...	
		F	10 07 00	...	...	...	
June 23rd	E	iS	05 30 13	...	...	2,945	
		L	05 33 25	...	...	...	
		M	05 36 04	...	...	...	
		F	06 00 00	...	5·4	...	
June 24th		Very distant; phases not clear.					
June 29th	E	i	08 35 00	...	...	...	
		e	08 42 47?	...	...	...	
		F	09 30 00	...	...	...	
July 6th	E	e	11 03 26	...	...	...	Feeble near shock.
		F	11 14 00	...	...	...	
July 6th	E	e	23 26 33	...	...	...	Feeble distant shock.
July 7th		F	01 03 00	...	...	...	
July 12th	E	ePR_1	14 34 08	...	...	3,555	
		S	14 38 42	...	...	...	
		eL	14 44 41	...	...	...	
		M	14 47 44	...	0·5	...	
		F	14 58 00	...	...	...	
July 18th	E	P_1	01 56 15	...	...	17,000	Great shock.
		PR_1	02 00 00	...	...	...	
		PR_2	02 03 30	...	...	...	
		ScPcPcS	02 07 09	...	...	...	
		PSc Pc S	02 10 20	...	...	...	
		PPS	02 13 19	...	...	...	
		SR_1	02 19 24	...	...	...	
		SR_2	02 25 40	...	...	...	
		M	03 20 30	...	...	...	
		F	06 30 00	...	10	...	
July 18th	E	P_1	17 20 35	...	...	...	Probably after shock of the previous great shock.
		M	18 35 55	...	...	...	
		F	...	...	1·6	...	F lost in the record.
July 19th	E	e	06 09 00	...	...	...	Feeble shock.
		F	07 15 00	...	...	...	
July 19th	E	P	07 50 07	...	...	10,330	
		PR_1	07 53 43	...	...	...	
		ScPcS	08 00 33	...	...	...	

Date.	Compt.	Phase.	G. M. L.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	m.m.	Km.	
July 19th		PS	08 02 21	...	...	...	
		M	08 36 57	...	2·1	...	
		F	09 56 00	...	...	...	
July 21st	E	P	06 31 43	...	...	10,445	
		PR_1	06 35 26	...	...	...	
		PR_2	06 37 19	...	...	...	
		Sc Pc S	06 42 12	...	...	...	
		PS	06 43 52	...	...	...	
		SR_1	06 49 14	...	...	...	
		PS	06 43 52	...	...	...	
		M	07 15 05	...	...	...	
		F	10 09 00	...	10·6	...	
July 21st	E	e	10 59 05	...	...	...	Very distant: phases not clear.
		M	12 04 20	...	1·1	...	
		F	13 00 00	...	...	...	
July 22nd	E	P	20 02 47	...	...	2,255	
		iS	20 06 34	...	...	...	
		L	?	...	...	...	
		M	20 10 55	...	...	...	
		F	...	...	6·4	...	
July 28th	E	e	02 19 37	...	...	...	Tremor.
		F	02 35 00	...	...	...	
July 28th	E	i	21 55 03	...	...	...	Slight distant shock.
		M	22 37 36	...	...	...	
		F	23 05 00	...	3·3	...	
July 31st	E	iP	11 53 53	...	...	2,120	
		iS	11 57 28	...	...	...	
		iL	11 59 06	...	...	...	
		M	12 00 38	...	...	...	
		F	12 21 00	...	1·6	...	
Aug. 7th	...	P	03 53 14	...	...	11,780	
		P^1	03 56 54	...	...	...	
		Sc Pc S	04 03 43	...	...	...	
		Sc Pc Pc S	04 04 48	...	...	...	
		eL	04 30 00	...	...	...	
		Mn	04 37 50	20	1·8	...	
		F	07 05 00	...	...	...	
		Another shock after 12h. 00m. 00s. Minute contact failed. Time not determinable.					
Aug. 11th	E	iP	08 26 38	...	...	4,915	
		PR_1,	08 28 22	...	...	...	
		eS	08 33 18	...	...	...	
		SR_1	08 36 19	...	...	...	
		SR_2	08 37 21	...	...	...	
		L	08 40 11	...	...	...	

TABLE D 4—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	m.m.	Km.	
		Mn	08 47 29	16	1·0	...	
		F	09 59 00	...	...	...	
Aug. 11th	E	i	12 19 07	...	...	...	Feeble shock.
		F	13 23 00	...	...	...	
Aug. 12th	E	eP	23 58 04	...	...	5,360	
		PR_1	23 59 41	...	...	...	
Aug. 13th	...	PR_2	00 00 11	...	...	...	
		iS	00 05 09	...	...	...	
		SP	00 05 56	...	...	...	
		SR_1	00 09 00	...	...	...	
		SR_2	00 10 25	...	...	...	
		L	00 14 08	...	...	...	
		Mn	00 18 44	18	6·8	...	
		F	01 40 00	...	...	...	
Aug, 26th	E	e	17 41 16	...	...	...	Feeble shock.
		F	17 55 00	...	...	...	
Aug. 31st	E	eP	05 16 11	...	...	10,720	
		PR_1	05 20 07	...	...	...	
		Sc Pc S	05 26 47	...	...	...	
		ScPcPcS	05 27 18	...	...	...	
		eS	05 27 42	...	...	...	
		SR_1	05 34 35	...	...	...	
		L	?	...	...	...	
		Mn	05 57 48	...	0·5	...	
		F	06 45 00	...	...	...	
Aug. 31st	E	eP	15 03 53	...	...	3,165	
		iS	15 08 50	...	...	...	
		SR_1	15 10 02	...	...	...	
		L	15 11 55	...	...	...	
		M	15 14 00?	11	19	...	
		F	?	...	...	...	Minute contact not clear. lines overlapping.
Sept. 1st	E	e	12 43 28	...	...	...	Feeble shock.
		F	12 58 00	...	...	...	
Sept. 1st	E	e	13 15 47	...	...	...	Feeble shock.
		F	13 24 00	...	...	...	
Sept. 3rd	E	e	10 30 18	...	...	...	Feeble schock.
		F	10 48 00	...	...	...	
Sept. 4th	E	e	16 51 12	...	...	...	Distant feeble shock.
		F	18 15 00	...	...	...	
Sept. 6th	Lines overlapping. Feeble shock at about 02 h.						
Sept. 8th	E	e	06 56 02	...	...	...	Beginning uncertain: probably much earlier.
		Mn	07 01 09	7	0·9	...	
		F	07 29 00	...	...	...	
Sept. 9th	E	e	05 07 46	...	...	...	Feeble shock.
		F	05 25 00	...	...	...	
Sept. 11th	E	e	08 28 43	...	...	...	Feeble shock.
		F	08 55 00	...	...	...	
Sept. 12th	E	e	14 54 10	...	...	...	Feeble shock.
		F	15 29 00	...	...	...	
Sept. 15th	E	e?	08 11 10	...	...	...	Feeble shock.
		F	08 48 00	...	...	...	
Sept. 15th	E	e	12 06 26	...	...	...	Feeble shock.
		F	12 17 00	...	...	...	
Sept. 16th	E	e	06 28 19	...	...	...	Feeble shock.
		F	06 59 00	...	...	...	
Sept. 21st	E	iP	12 43 56	...	...	2,620	
		iPR_1	12 44 26	...	...	...	
		iS	12 48 12	...	...	...	
		iSR_1	12 49 06	...	...	...	
		L	12 50 08	...	...	...	
		M	...	...	...	...	
		F	14 23 00	...	...	...	
Sept. 23rd	E	e	01 30 50	...	...	...	Feeble shock.
		F	01 50 00	...	...	...	
Sept. 23rd	E	e	08 27 00	...	...	...	Feeble shock.
		F	09 21 —	...	...	...	
Sept. 25th	E	iP	19 26 10	...	...	9,010	
		ePR_1	19 29 05	...	...	...	
		iS	19 36 22	...	...	...	
		iPS	19 37 02	...	...	...	
		SR_1	19 41 30	...	...	...	
		L	19 51 52	...	...	...	
		M	...	...	...	...	
		F	20 15 00	...	...	...	
Sept. 25th	E	e	23 35 11	...	...	...	
Sept. 26th	...	F	00 03 00	...	...	...	
Sept. 26th	E	e	01 16 59	...	...	...	Minute marks not clear.
		M	01 23 39	...	...	...	
		F	...	...	...	...	
Sept. 26th	E	e	07 49 00	...	...	...	Feeble shock.
		F	08 48 00	...	...	...	
Sept. 26th	E	e	13 44 17	...	...	...	Feeble shock.
		F	14 14 00	...	...	...	
Sept. 26th	E	e	16 08 19	...	...	...	Feeble shock.
		F	16 22 00	...	...	...	
Sept. 27th	E	e	03 52 29	...	...	...	Feeble shock.
		F	04 08 00	...	...	...	

TABLE D 4—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	m.m.	Km.	
Oct. 5th	E	e	20 24 35	...	...	...	Two distant feeble shocks overlapping.
		F	?	...	...	...	
		e	?	...	...	...	
		F	23 01 00	...	...	...	
Oct. 10th	E	e	13 55 45	...	...	...	Feeble shock.
		F	14 13 00	...	...	...	
Oct. 19th	E	eP	15 54 39	...	...	11,785	
		PR_1	15 58 45	...	...	...	
		PR_2	16 01 06	...	...	...	
		Sc Pc S	16 05 13	...	...	...	
		ScPcPcS	16 06 02	...	...	...	
		iS	16 06 31	...	...	...	
		PS	16 08 08	...	...	...	
		PPS	16 09 06	...	...	...	
		SR_1	16 14 03	...	...	...	
		SR_2	16 18 29	...	...	...	
		L	16 31 05	...	...	...	
		M	16 39 08	...	...	...	
		Mn	16 44 40	17	1·0	...	
		F	18 43 00	...	...	...	
Oct. 18th	E	eP	08 01 24	...	...	11,100	
		PR_1	08 05 24	...	...	...	
		Sc Pc S	08 11 54	...	...	...	
		ScPcPcS	08 12 47	...	...	...	
		S	08 13 20	...	...	...	
		PS	08 14 31	...	...	...	
		PPS	08 15 23	...	...	...	
		L	08 36 35	...	...	...	
		Mn	08 44 34	17	0·6	...	
		F	10 41 00	...	...	...	
Oct. 19th	E	iP	21 03 29	...	...	2,545	
		eS	21 07 39	...	...	...	
		SR_1	21 08 24	...	...	...	
		L	21 09 27	...	...	...	
		Mn	21 11 28	7	4·5	...	
		F	21 55 00	...	...	...	
Oct. 21st	E	iP	18 04 09	...	...	7,965	
		eS	18 13 33	...	...	...	
		PS	18 14 05	...	...	...	
		SR_1	18 18 22	...	...	...	
		SR_2	18 21 13	...	...	...	
		L	18 27 11	...	...	...	
		Mn	?	...	...	...	
		F	18 59 00	...	...	...	
Oct. 22nd	E	e	01 10 22	...	...	...	
		F	01 35 00	...	...	...	
Oct. 25th	E	eP	01 42 18	...	...	1,580	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	m.m.	Km.	
Oct. 25th		eS	01 45 05	...	...	...	
		SR_1	01 45 34	...	...		
		L	01 46 10	...	...		
		Mn	01 47 1	...	...		
		F	02 24 00	...	...	...	
Oct. 26th	E	P	14 52 25	...	...	4,020	
		PR_1	14 53 43	...	...	...	
		PR_2	14 54 27	...	...	...	
		iS	14 58 49	...	...	...	
		SR_1	15 01 41	...	...	...	
		L	15 05 11	...	...	...	
		Mn	?	...	...	...	
		F	16 24 00	...	...	...	
Oct. 26th	E	iP	17 20 33	...	...	5,800	
		PR_1	17 22 25	...	...	...	
		S	17 28 03	...	...	...	
		SR_1	17 31 28	...	...	...	
		SR_2	17 33 00?	...	...	...	
		L	17 36 30	...	...	...	
		Mn	17 48 02	18	1·5	...	
		F	19 29 00	...	...	...	
Oct. 27th	E	e	10 32 27	...	...	...	
		F	12 27 00	...	...	...	
Oct. 28th	...	*Distant feeble shocks. No time marks.*					
Oct. 29th	...						
Nov. 2nd	E	e	15 29 00	...	...	...	Tremor.
		F	15 39 00	...	...	...	
Nov. 4th	E	e	02 11 34	...	...	...	Part of the record lost while changing paper.
		i	02 18 17	...	...	...	
		L	?	...	...	...	
		Mn	02 52 44	22	3·6	...	
		F	06 20 00	...	...	...	
Nov. 5th	E	eP	23 15 34	...	...	10,600	
		iScPc S	23 26 02	...	...	...	
		PS	23 28 00	...	...	...	
Nov. 6th	...	Mn	00 02 20	18	1·0	...	
		F	02 33 00	...	...	...	
Nov. 12th	E	iS ?	07 34 04	...	...	...	Beginning uncertain.
		SR_1 ?	07 37 14	...	...	...	
		eL ?	07 40 58	...	...	...	
		Mn	07 46 30	20	1·5	...	
		F	?	...	...	...	
Nov. 15th	E	eP	23 20 17	...	...	2,845	Epc. Kashmir ; preliminary movements very feeble.
		S	23 24 49	...	...	...	

TABLE D 4—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	m.m.	Km.	
Nov. 15th		iSR_1	23 25 59	...	...	...	
		L	23 27 11	...	...	...	
		Mn ?	23 29 21	?	0·7	...	
		F	23 52 00	...	...	...	
Nov. 16th	E	e	10 49 00	...	...	...	Tremor.
		F	11 27 00	...	...	...	
Nov. 16th	E	eP	13 54 32	...	...	8,360	Preliminary movements very feeble.
		S	14 04 15	...	...	...	
		PS	14 04 51	...	...	...	
		SR_1	14 09 11	...	...	...	
		L	14 18 25	...	...	...	
		Mn	14 25 12	23	0·6	...	
		F	16 11 00	...	...	...	
Nov. 18th	E	eP	03 27 48	...	...	2,735	
		iS	03 32 12	...	...	...	
		iSR_1	03 33 17	...	...	...	
		Mn	03 36 35	10?	6·4	...	
		F	06 25 00	...	...	...	
Nov. 18th	E	iP	22 53 04	...	...	8,385	
		iS	23 02 48	...	...	...	
		iPS	23 03 18	...	...	...	
		L	23 18 12	...	...	...	
		Mn	23 24 40	30	1·0	...	
		F	?	...	...	...	Lines overlapping.
Nov. 19th		Feeble shock : lines overlapping and no minute marks.					
Nov. 19th	E	e	08 01 00	...	...	...	Tremor.
		F	08 37 00	...	...	...	
Nov. 22nd	E	e	22 29 00	...	...	...	Tremor.
		F	22 59 00	...	...	...	
Nov. 24th		Feeble shock ; lines overlapping ; times uncertain.					
Nov. 25th	E	e	10 22 00	...	...	...	Tremor.
		F	10 44 00	...	...	...	
Nov. 27th	E	P	06 23 03	...	...	5,290	
		PR_1	06 24 46	...	...	...	
		iPR_2	06 25 30	...	...	...	
		iS	06 30 04	...	...	...	
		iSR_1	06 32 51	...	...	...	
		iSR_2	06 34 22	...	...	...	
		L	06 37 53	...	...	...	
		Mn	06 43 27	22	1·7	...	
		F ?	08 18 00	...	...	...	
Nov. 29th	E	e	22 46 00	...	...	...	Feeble shock.
		F	23 06 00	...	...	...	
Nov. 30th	E	P	02 25 13	...	...	16,765	Part of the record lost while changing paper.
Nov. 30th		SR_1	02 48 01	...	...	...	
		iSR_2	02 54 00	...	...	...	
		eL	03 17 19	...	...	...	
		Mn	03 29 14	21	3·2	...	
		F	05 52 00	...	...	...	
Nov. 30th	E	e	21 46 00	...	...	...	Tremor.
		F	21 54 00	...	...	...	
Dec. 3rd	E	e	02 57 59	...	...	...	
		F	03 04 59	...	...	...	
Dec. 3rd	E	e	03 54 33	...	...	...	
		F	04 58 59	...	...	...	
Dec. 4th	E	e	17 44 11	...	...	...	
		F	19 38 59	...	...	...	
Dec. 5th	E	e	08 21 48	...	...	...	
		F	08 46 30	...	...	...	
Dec. 5th	E	e	21 31 18	...	...	...	
		F	22 05 00	...	...	...	
Dec. 7th	E	e	03 08 15	...	...	...	
		F	03 59 00	...	...	...	
Dec. 7th	E	e	05 46 08	...	...	...	
		F	06 24 00	...	...	...	
Dec. 7th		Lines overlapping.					
Dec. 10th		Ditto.					
Dec. 14th		Ditto.					
Dec. 15th	E	iP	02 02 50	...	...	2,590	
		iS	02 07 03	...	...	...	
		L	02 09 13	...	...	...	
		Mn	02 22 56?	20	51·0	...	
		F	05 32 00	...	...	...	
Dec. 15th	...	e	10 30 00	...	...	...	
		F	10 48 00	...	...	...	
Dec. 15th	...	e	19 31 53	...	...	...	
		F	20 36 00	...	...	...	
Dec. 16th	...	e	00 40 00	...	...	...	
		F	00 51 00	...	...	...	
Dec. 16th	...	e	16 20 00	...	...	...	
		F	16 30 00	...	...	...	
Dec. 16th	...	e	20 51 00	...	...	...	
		F	21 01 00	...	...	...	
Dec. 16th	...	e	23 46 00	...	...	...	
		F	23 59 00	...	...	...	
Dec. 17th	...	e	06 58 00	...	...	...	
		F	07 09 00	...	...	...	

TABLE D 4—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec	m.m.	Km.	
Dec. 17th	...	e	09 26 00	...	...	...	
		F	09 37 00	...	...	...	
Dec. 17th	...	e	14 51 00	...	...	...	
		F	15 05 00	...	...	...	
Dec. 17th	E	eP	16 04 06	...	...	7,395	
		PR_1	16 07 00	...	...	...	
		S	16 13 28	...	...	...	
		PS	16 14 00	...	...	...	
		SR_1	16 18 23	...	...	...	
		SR2	16 21 08	...	...	...	
		eL	16 27 00	...	...	...	
		M	?	...	...	...	
		F	?	...	...	...	
Dec. 18th	E	iP	11 27 29	...	...	2,590	
		iS	11 31 42	...	...	...	
		eL	11 34 20	...	...	...	
		Mn	11 36 39	8	3·5	...	
		F	12 25 00	...	...	...	
Dec. 19th	E	e	03 10 30	...	...	...	
		F	03 28 00	...	...	...	
Dec. 21st	E	iS ?	06 44 09	...	...	...	P not recorded.
		L ?	06 47 00	...	...	...	
		Mn	06 49 10	9·2	1·0	...	
		F	07 15 00	...	...	...	
Dec. 21st	E	iP	12 44 14	...	...	2,680	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1934.			H. M. S.	Sec.	m.m.	Km.	
Dec. 21st		iS	12 48 34	...	...	...	
		L	12 51 25	...	...	...	
		Mn	12 53 47	9·2	1.5	...	
		F	13 40 00	...	...	...	
Dec. 22nd	E	iP	10 56 26	...	...	2,590	L-waves *poor* maximum movements in secondary; probably deep focus and of submarine origin
		S	11 00 40	...	...	...	
		SR_1	11 01 33	...	...	...	
		eL	11 02 35	...	...	...	
		F	12 27 00	...	...	...	
Dec. 22nd	E	e	14 49 00	...	...	...	
		F	17 59 00	...	...	...	
Dec. 23rd	E	e	10 10 00	...	...	...	
		F	11 51 00	...	...	...	
Dec. 25th	E	e	06 38 20	...	...	...	
		F	08 43 00	...	...	...	
Dec. 25th			Lines overlapping.				
Dec. 27th	E	e	13 48 00	...	...	...	
		F	14 06 00	...	...	...	
Dec. 28th	E	e	11 49 29	...	...	...	
		F	14 01 00	...	...	...	
Dec. 30th			Lines overlapping.				
Dec. 31st			Distant moderate shock: lines missing in middle and end.				

Solar Physics Observatory,
Kodaikanal.

T. ROYDS,
Director.

The following table contains a list of earthquakes that were reported by voluntary Observers from various stations.

TABLE D-5.

Place at which felt.	Date.	G.M.T. of earthquake.	Duration.	Intensity (Rossi-Forel scale).	No. of shocks.	Remarks.
	1934.	H. M.	Sec.			
Dhubri	Jan. 1	13 19	14	7	2	
Mandalay	,, 1	22 30	2-3	3	2	
Do.	,, 3	00 30	1-2	3	1	
Do.	,, 4	08 30	1-2	3	1	
Myitkyina	,, 4	03 14	2	6	2	
		04 13	5			
Andipatti (Madura Dist.)	,, 11	21 15	10	5	...	
Sibsagar	,, 14	03 50	65	5	1	
Chittagong	,, 14	15 03	3	4	1	
Srinagar	,, 15	08 50	2	6	1	
Cocanada	,, 15	08 43	120	5	6	
Roorkee	,, 15	08 50	60	6	1	
Indore	,, 15	08 50	90	4	2	
Hazaribagh	,, 15	08 41	240	7	...	Several tremors.
Daltonganj	,, 15	08 43	300	8	1	Almost all the buildings cracked.
Pachmarhi	,, 15	08 40	120	5	1	
Masulipatam	,, 15	08 30	120	4	1	
Poona	,, 15	08 50	6	3	1	
Sambhar (Jodhpur State)	,, 15	07 48	90	...	...	
Didwana (Do.)	,, 15	08 45	90	...	...	
Nagur (Do.)	,, 15	08 45	60	...	...	
Merta (Do.)	,, 15	08 50	60	...	...	
Jodhpur (Do.)	,, 15	08 50	25-30	6	3	
Bilara (Do.)	,, 15	08 46	180	...	...	
Chandbali	,, 15	08 50	...	...	...	
Cawnpore	,, 15	08 40	240	8	...	Houses cracked & collapsed. Mosque pillar cracked.
Bahraich	,, 15	...	...	...	...	
Berhampore	,, 15	08 40	240	...	...	
Delhi	,, 15	08 51	...	...	...	
Calingapatam	,, 15	08 50	30	...	...	
Akyab	,, 15	08 51	5	3	3	
Shillong	,, 15	08 45	200	4	...	Series of tremors.
Lahore	,, 15	09 00	2-3	3	1	
Dhubri	,, 15	08 41	56	8	6	
Nowgong	,, 15	08 50	240	8	3	
Khulna	,, 15	08 43	135	6	...	Mild vibrations.
Rangpur	,, 15	08 44	80	8	...	
Sibsagar	,, 15	08 46	272	5	1	
Mymensingh	,, 15	08 45	180	7	1	
Peshawar	,, 15	08 50	60	5	2	
Muktesar	,, 15	08 50	60	5	2	
Cherrapunji	,, 15	08 46	10	2	3	
Ranchi	,, 15	08 42	180	9	2	Buildings damaged.*
Faridpur	,, 15	08 47	120	7	4	
Cooch Behar	,, 15	08 46	180	8	1	

Place at which felt.	Date.	G.M.T. of earthquake.	Duration.	Intensity (Rossi-Forel scale).	No. of shocks.	REMARKS.
	1934.	H. M.	Sec.			
Ajmer	Jan. 15	08 45	54	8	...	
Narayanganj	,, 15	08 42	60	5	4	
Gauhati	,, 15	08 49	225	7	1	
Chittagong	,, 15	08 48	5	4	2	
Salona	,, 15	08 55	180	8	...	Slow vibrations.
Jaipur	,, 15	08 48	300	6	...	Several shocks.
Yatung, Tibet	,, 15	08 48	80-90	9	...	Several tremors.
Kaira Distt.	,, 15	08 55	...	5	...	Buildings damaged.
Deesa	,, 15	09 00	3	3	1	
Srinagar	,, 16	23 23	6	6	2	separate shocks.
Sonamarg	,, 16	23 28	6	6	5	
Dras	,, 16	23 30	10	7	2	
Drosh	,, 17	00 22	40	6	3	
Hazari Bagh	,, 19	18 42	180	5	...	Several tremors.
Daltonganj	,, 19	18 40	60	9	...	Post Office building cracked.
Nowgong	,, 19	18 50	30	5	1	
Dhubri	,, 21	02 30	4	6	1	
Barmer	,, 27	07 22	3	5	1	
Peshawar	,, 27	22 15	10	5	1	
Naya Dumka	Feb. 8	14 30	1½	3	1	
Salona	,, 14	09 08	30	3	1	
Dhubri	,, 19	07 13	4	7	1	
Do.	,, 19	07 28	3	7	1	
Akyab	,, 24	15 24	3	6	2	
Salona	Mar. 7	15 55	3-4	4	1	
Shillong	,, 7	19 29	1	4	2	
Gilgit	,, 11	02 25	3-4	6	1	
Salona	,, 17	18 15	6	4	1	
Drosh	,, 20	14 25	5	5	1	
Yatung, Tibet	Apr. 3	06 59	5	5	...	Several tremors.
Do.	,, 11	20 47	3	5	1	
Didwana (Jodhpur State).	,, 14	01 30	10	...	...	
Drosh	,, 22	05 50	2	6	2	
Do.	,, 23	02 00	2	6	2	
Johi (Dadu Dist.)	May 1	03 40	2	4	2	
Dadu	,, 1	03 45	2	4	2	
Mehar (Dadu Distt.)	,, 1	03 55	1	4	2	
Sehwan	,, 1	03 55	2	4	2	
Kakar (Dadu Dist.)	,, 1	03 55	2	4	2	
Cooch Behar	,, 22	19 06	10	5	1	
Srinagar (Kashmir)	,, 24	12 25	2	7	1	
Faridpur	June 2	05 57	1	4	1	
Gauhati	,, 2	05 55	10	6	1	
Shillong	,, 2	05 56	80	5	2	
Salona	,, 2	05 53	90	6	3	
Sibsagar	,, 2	05 53	10	6	1	
Naya Dumka	,, 2	05 50	2	2	1	

TABLE D 5—*contd.*

Place at which felt.	Date.	G.M.T. of earthquake.	Duration.	Intensity (Rossi-Forel scale).	No. of shocks.	REMARKS.
	1934.	H. M.	Sec.			
Cherrapunji	June 2	05 55	15	3	2	
Dhubri	,, 2	05 56	56	6	3	
Dera Ismail Khan	,, 13	22 20	5	5	2	
Rawalpindi	,, 13	22 16	30	3	1	
Gwadar	,, 13	22 15	...	5	...	
Mehar (Dadu Dist.)	,, 13	22 00	1	3	1	
Kakar, (Dadu Dist.)	,, 13	22 00	2	3	2	
Cooch Behar	,, 16	21 14	12	6	1	
Dhubri	,, 16	20 14	20	7	3	
Shillong	,, 16	20 14	7	5	2	
Gauhati	,, 16	20 15	5	6	1	
Salona	,, 16	20 08	2	4	1	
Drosh	July 5	08 28	50	6	3	
Gauhati	,, 13	23 21	15	6	1	
Salona	,, 13	23 03	10	6	...	
Shillong	,, 15	02 07	5	5	1	
Cooch Behar	,, 15	02 06	10	6	1	
Dhubri	,, 15	02 08	12	6	2	
Gauhati	,, 15	02 11	5	6	1	
Poona	,, 16	23 50	5	5	1	
Salona	,, 18	13 07	2-3	3	1	
Drosh	,, 22	19 30	5	8	1	Civil Hospital buildings walls cracked in some places.
Do.	,, 22	19 50	60	8	1	
Srinagar (Kashmir)	,, 22	20 02	5	8	2	
Gulmarg	,, 22	19 56	7	8	3	
Miranshah	,, 22	20 10	4	5	5	
Gilgit	,, 22	20 10	2-3	6	2	
Peshawar	,, 22	19 56	90	8	3	Buildings damaged.
Rawalpindi	,, 22	19 58	40-45	7	1	
Sialkot	,, 22	19 55	100-130	6	3	
Cherat	,, 22	20 02	98	8	2	
Dera Ismail Khan	,, 22	19 58	12	5	4	
Dros	,, 22	19 56	40	9	2	Walls cracked.
Salona	,, 27	03 36	5-7	3	1	
Dras	,, 29	04 11	24	3	3	
Salona	Aug. 2	01 10	3	5	1	
Sibsagar	,, 2	02 05	6	4	1	
Salona	,, 3	02 03	8	4	...	Small vibrations.
Skardu	,, 3	09 00	10	6	1	
Yatung, Tibet	Aug. 30	13 33	30	4	...	Several tremors.
Shillong	Sept. 2	10 49	2	5	1	
Salona	,, 10	20 30	6	5	1	
Dhubri	,, 23	08 48	22	6	2	
Cooch Behar	,, 24	15 41	5	6	1	
Lahore	,, 26	01 10	3	3	1	
Peshawar	,, 26	01 05	180	4	2 or 3	
Drosh	,, 26	01 08	20	6	3	
Srinagar (Kashmir)	,, 26	01 08	2	4	1	
Gulmarg	,, 26	01 11	2	6	1	
Dhubri	Oct. 20	04 24	3	6	1	
Drosh	,, 25	10 20	30	6	3	
Salona	Nov. 9	06 07	15	5	1	
Dhubri	,, 9	07 25	18	6	3	
Drosh	,, 15	23 16	90	5	6	
Srinagar (Kashmir)	,, 15	23 20	3	5	1	
Drosh	,, 17	11 16	13	6	1	
Dera Ismail Khan	,, 18	03 24	½	6	2	
Drosh	,, 18	03 23	120	8	9	
Sialkot	,, 18	03 30	15	5	2	
Peshawar	,, 18	03 20	150	7	2 or 3	
Cherat	,, 18	03 21	15	6	2	
Rawalpindi	,, 18	03 12	40	8	2	
Muzaffarabad	,, 18	03 20	5	4	2	
Srinagar (Kashmir)	,, 18	03 23	5	8	2	
Gilgit	,, 18	03 22	45	6	2	
Kabul	,, 18	03 37	30	5	1	
Sonamarg	,, 18	03 20	18	6	1	
Dras	,, 18	03 20	18	6	1	
Skardu	,, 18	03 21	60	6	7	
Lahore	,, 18	03 25	50-60	5	3	
Parachinar	,, 18	03 25	3	...	...	
Gurez	,, 18	03 40	about half	2	2	
Skardu	,, 19	09 57	3	3	1	
Akyab	,, 23	09 38	2	6	3	
Salona	Dec. 8	07 09	6-8	4	1	
Drosh	,, 10	20 11	4	5	1	
Chittagong	,, 16	19 13	5	3	1	
Drosh	,, 27	13 46	3	6	3	
Peshawar	,, 27	13 40	15	5	1	

Meteorological Office,
Poona.

J. M. SIL,
Meteorologist.

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GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1935

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INDIA WEATHER REVIEW, 1935

INTRODUCTION.

THE India Weather Review is composed of the twelve Monthly Weather Reports and the Annual Summary.

Monthly Weather Report.

Up to 1932 the monthly means published in the Monthly Weather Reports were only for 8 hrs. L. M. T. and were based upon the telegraphed figures, the Monthly Weather Report being published promptly at the end of each month. The necessity of an afternoon weather chart for the preparation of forecasts for aviators led to most of the observatories in Persia, northern and central India, and Burma being raised by the end of 1930 to class II, recording observations both in the morning and afternoon. Arrangements for the tabulation and scrutiny of the afternoon observations were completed in 1932. From the issue for January 1933 further changes were therefore made in the Monthly Weather Report; it was expanded to contain averages of the afternoon observations also; the monthly means were based upon the scrutinised data contained in the Monthly Meteorological Registers received by post and the publication of the Monthly Weather Report was consequently delayed; data from most of the non-telegraphic observatories were also included in the Monthly Weather Report.

From 1933 each Monthly Weather Report gives a short account of the weather of the month and has the following five tables:—Table I containing the divisional and subdivisional means, Table II the monthly means of observations at 8 hrs. local mean time and 17 hrs. I. S. T. at Indian stations, Table III observations recorded at stations west of the Indus at 4 and 14 hrs. G. M. T. up to the 30th June 1934 and at 4 and 12 hrs. G. M. T. afterwards, Table IV the data of fourth class stations and Table V the rainfall data of fifth class stations.

Annual Summary.

Beginning with the issue for 1933, the Annual Summary is published in five parts, instead of seven, as detailed below—

I. Introduction.—Title page; table of contents; introduction; sheets of errata to Monthly Weather Reports and Annual Summary.

II. Part A.—Summary of weather and rainfall and tables of meteorological data. This gives a general description of the weather of the year, and contains annual tables corresponding to the monthly tables in the Monthly Weather Reports, monthly and annual tables for a few stations, tables of observations at the third hour of observation and daily means at the first class stations and special tables of nocturnal radiation temperature, sunshine data, hourly wind velocities and rainfall.

Three plates showing the monthly and seasonal distribution of rainfall and monthly departures of pressure are given at the end.

III. Part B.—Snowfall. This gives a summary of the snowfall reports received from the mountain regions in the north of India.

IV. Part C.—Storms and depressions. This describes all storms and depressions and contains articles on western disturbances and local storms, and storm track charts.

V. Part D.—Seismic Records. This contains the records obtained with seismographs maintained by the department at Agra, Bombay, Calcutta and Kodaikanal. The list of publications of the India Meteorological Department will be found at the end of this part.

Notes on conditions of exposure of instruments, on methods of reduction and on form of presentation of data.

The following notes concerning the methods of observation in India and of reduction and grouping of results will probably be of some help to users of this volume.

Territorial divisions.

The system of territorial divisions, which has remained unchanged since 1st April 1912, is as follows:—

Chief political divisions.	Sub-divisions.
	Bay Islands.
Burma	Lower Burma.
	Upper Burma.
Assam	Assam.
Bengal	Bengal.
Bihar and Orissa	Orissa.
	Chota-Nagpur.
	Bihar.
United Provinces	United Provinces, East.
	United Provinces, West.
Punjab	Punjab, East and North.
	Punjab, Southwest.
	Kashmir.
North-West Frontier Province	North-West Frontier Province.
	Baluchistan.
Sind	Sind.
Rajputana	Rajputana, West.
	Rajputana, East.
Bombay	Gujarat.
	Konkan.
	Bombay Deccan.
Central India	Central India, West.
	Central India, East.
Central Provinces	Berar.
	Central Provinces, West.
	Central Provinces, East.
Hyderabad	Hyderabad, North.
	Hyderabad, South.
Mysore	Mysore.
Madras	Malabar.
	Madras, Southeast.
	Madras, Deccan.
	Madras Coast, North.

Barometric pressure.

Mercurial barometers on Fortin's principle with tubes of 0·4″ bore throughout have always been in use at most of the observing stations in India; but of late years the department has introduced an increasing number of Kew pattern barometers, made according to specifications issued by the Department.

Aneroid barometers were in use at Ispahan, Tehran, Kashgar, Srinagar (up to the 15th October 1935) and Meshed (since June 1935).

At Calcutta and Bombay the standards are Newman instruments, with adjustable scales; at Poona, the standard is an instrument on Fortin's principle. All these standards have tubes of large bore.

All instruments issued up to 1931 were compared at Calcutta before issue and their corrections determined to the Calcutta standard, which was, until 1910, about ·011″ higher than the Kew standard. On the results of intercomparison during April 1935, it would appear that the present difference is —·009; it was however decided to continue the accepted value of —·011″ until further comparisons are made.

Instruments issued since the year 1932 have been compared with the Fortin standard at Poona, and the corrections determined with reference to the Calcutta standard mentioned above.

The barometers are in all cases situated in masonry buildings to protect them as much as possible from rapid changes of temperature.

The heights above mean sea level of the barometers are given in all Tables. Heights of most stations have been obtained accurately by actual measurement from datum levels determined by the Great Trigonometrical Survey of India; the heights of only a few stations, mostly in Kashmir, have been determined barometrically.

All readings are for station level reduced to 32° F. and to standard gravity.

Temperature.

The older method of exposing thermometers in India lay in the use of large open-sided sheds to protect the instruments from extraneous radiation. A detailed description of the shed and of the methods of exposure will be found in the Instructions to Observers of the India Meteorological Department (1902 edition) and in the Annual Report on the Meteorology of India for the year 1887, page 37. The cost of the sheds and of their upkeep rose greatly after the war, and it became necessary to consider other devices for efficiently shading thermometers. Experiments with other types of shed and with various types of louvred screens were carried out at Agra and described in Vol. XXIV, Part III, of the Memoirs of this department.

As a result it was decided to replace all sheds in India by Stevenson screens, as opportunity offered. The screen adopted for use in India has free inside measurements of about 22″ length, 12″ depth and 16″ height, and is somewhat larger than the pattern approved in 1884 by the Thermometer Screen Committee of the English Meteorological

Society and larger too than the "small model" in common use in Germany. It is made of teak wood painted white and has four double louvred sides and a perforated top and bottom. A sloping extra cover of wood protects the top from sun and rain. The door on the north side has 14 louvres and the remaining sides have 16 louvres each.

A beginning was made with this policy in the year 1923, and by the end of the year 1935, thermometer sheds remained to be replaced by Stevenson screens only at 11 observatories, mostly in Indian States.

Thermometers in use which were issued up to the end of 1931 were verified by comparison with Kew standard thermometers at Calcutta. Instruments issued from 1932 were compared at Poona with standards provided with certificates of correction from the National Physical Laboratory, Teddington, England. All the thermometers at the observing stations are re-standardised from time to time; all readings are corrected to their true values.

Although observations are recorded twice a day, at 8 hrs. L. M. T. and 17 hrs. I. S. T., at most of the Indian observatories, the maximum and minimum thermometers are set only once in a day, at the time of the morning observation, and the maximum and minimum temperatures refer to the 24 hours period ending at 8 hrs. local time. The monthly means of these temperatures refer to the month ending at 8 hrs. on the last day of the month. At stations west of the Indus which record observations at 4 hrs. and 12 hrs. G. M. T. maximum and minimum thermometers are set at both the hours of observation. Maximum temperature entered against any date is that for the 24 hours ending at the afternoon observation hour of that date and the minimum temperature for the 24 hours ending at the morning observation hour. Hence for maximum temperature the month ends with 12 hrs. G. M. T. and for minimum temperature with 4 hrs. G. M. T. on the last day of the month.

Terrestrial radiation.

New terrestrial radiation thermometers were brought into use at most of the departmental first-class observatories and the method of exposure was also altered in 1932. Formerly these thermometers were laid on a thick pad of woollen blanket; but since 1932 they are placed on two wooden forks on a close cropped grass plot so that the bulb of the thermometer is about $1\frac{1}{2}''$ above ground. The radiation minimum temperatures recorded by these thermometers at 12 stations appear in Table VIII, in which the depression of these temperatures below the minimum temperature in shade at 4 feet above ground is also given. The normals of the radiation minimum temperature and of its depression below the shade minimum temperature are based on more than 50 years data at Calcutta, Lahore and Bombay, 40 years at Jaipur and Bangalore and about 30 years at Madras and Kodaikanal.

Hours of bright sunshine.

Sunshine recorders were in use at 12 stations. At all the Indian stations except Kodaikanal the standard Campbell-Stokes pattern sunshine recorder was in use, the Whipple-Casella type of instrument at Lahore being replaced by the standard pattern of instrument on the 25th January 1935. At Kodaikanal a Whipple Casella type still continues in use. The data from Abadan (in Iran) are from the records of a twin-cylinder Jordan sunshine recorder and are therefore not strictly comparable with those for the other stations.

Surface winds.

All anemometers issued up to the end of 1931 were compared before issue with the standard Beckley anemograph at the Alipore Observatory. Since January 1932 anemometers are issued from Poona after comparison with the standard cup anemometer there. This standard is provided with a certificate of corrections from wind channel tests made by the National Physical Laboratory, Teddington, England, and has also been compared with the Beckley anemograph at Alipore. However, as only instruments with small corrections are issued and as it is impracticable to prevent always slight alterations in exposure resulting from growth of trees or erection of buildings, it has been considered unnecessary to apply any correction to the observed values.

Up to 1911 the factor representing the ratio of air movement to travel of Beckley cups had in India, as in other countries, been taken at 3·0; but from that year the generally accepted factor of 2·2 has been used (*see* note on page 8, Monthly Weather Review, January 1912). Recently the department has begun to introduce totalising anemometers remodelled at the departmental workshop at Poona from old cup anemometers of the dial pattern. The wind data published consist of the mean hourly air movement as registered by Robinson anemometers during the 24 hours ending at the time of morning observations and the frequency of the wind direction from 8 compass points at both the hours of observation. The resultant direction wherever given is calculated by the use of Lambert's formula in which equal weight is given to each wind observation irrespective of velocity.

The hourly velocities at eight stations equipped with Beckley's or Dines' P. T. anemographs are given in Table IX.

Humidity and cloud.

The hygrometric data are calculated by means of the departmental "Tables for the reduction of meteorological observations in India". The proportion of cloud is estimated in tenths of the sky expanse, an overcast sky being denoted by 10 and a cloudless sky by 0.

Rainfall.

Symons' raingauges with funnels of 5″ diameter are now used at all raingauge stations, with the exception of those in Mysore and Travancore where raingauges of local make having funnels of 4·7 inches diameter are in general use. The time of measuring rainfall is 8 hrs., local time, throughout India, and the amounts then registered give the rainfall of the previous 24 hours.

The rainfall data for each province are generally tabulated in the office of the provincial officers controlling registration of rainfall in the province, and published in the provincial gazettes. The data of Baluchistan, Rajputana, Central India, Eastern States and States in the Bombay Presidency are, however, published by the Meteorological Office, Poona. These provincial tables are collected together and are issued annually in a separate volume entitled "Rainfall of India". The forty-fifth volume, that of 1935, contains the whole

rainfall data of over 3,200 stations which are utilised in preparing Tables XI to XVI on pages A44 to A53. In these provincial tables and in the rainfall observations at the meteorological observatories published in this volume a " rainy day " is taken to be one on which 0·10 inch or more of rain is recorded.

Tables I to V in the Annual Summary, Part A, corresponding to Tables I to V in the *Monthly* Weather Report, contain the annual means of stations whose monthly data have appeared in the Monthly Weather Reports.

Tables.

Tables II-A and III-A are similar to Tables II and III respectively and contain the monthly and annual means of those stations which could not be included in the Monthly Weather Report.

Table VI gives the monthly and annual means of observations recorded at 12-30 hrs. I. S. T. at 13 first class stations. This also contains the daily means of pressure, temperature, humidity and vapour tension which have appeared in table D-1 up to 1932. The daily means of pressure, humidity and vapour tension data given in this table have been obtained from the means of 8 hrs. L. M. T., 12-30 hrs. and 17 hrs. I. S. T., and those of temperature from the means of maximum and minimum temperatures by the application of appropriate corrections, derived from the available hourly observations, to reduce them to true mean of the day. The daily means of Kodaikanal are those obtained from the hourly records of self-recording instruments corrected by eye readings. The daily means and 12-30 hrs. I. S. T. data of Bombay, with the exception of cloud, are taken from autographic charts.

Table VII gives the monthly values of observations recorded at 10 hrs. and 16 hrs. L. M. T. at Seychelles. The daily means of pressure, etc., given in this table, have also been reduced to true mean of day by applying appropriate diurnal corrections to the means of 10 and 16 hrs. L. M. T.

Table VIII gives the abstract of hours of bright sunshine and nocturnal radiation minimum temperature at 14 stations.

Table IX gives the mean hourly wind velocity at eight stations equipped with anemographs. The heights of anemometer cups or their heads above ground are given in brackets against each station.

Table X gives the number of days on which the Nilgiris were visible from Kodaikanal.

Tables XI to XV give the divisional and sub-divisional means of rainfall, derived from the records at over 3,200 rainfall recording stations and table XVI gives heavy falls of 10″ and above in 24 hours at these stations.

The normals used for comparison in tables I to V and XI to XV are based mostly upon all the available data down to 1920. In some cases, the data up to 1930 have been used, while, at certain stations with short period data, normals have been derived by comparison with neighbouring stations having long period normals.

Normals.

In table VI normal values derived from all available data up to 1899 as published in the Indian Meteorological Memoirs, Vol. XVII, have been used. The normals of Bombay are those published in the Climatology of Bombay and are based on hourly data up to 1920. Those of Kodaikanal are based on 11 years hourly data from 1901 to 1911.

The departures from normals in table VII are also based on normals up to 1899.

The data of stations under the administrative control of the Meteorological Offices at Calcutta, Karachi and Poona are scrutinised and supplied by the respective centres.

INDIA WEATHER REVIEW, 1935.

ERRATA.

TABLE OF CORRECTIONS TO BE APPLIED TO DATA IN TABLES II, III AND IV OF THE MONTHLY WEATHER REPORTS FOR 1935.

[N. B.—Subsequent tables for individual months should also be referred to].

Station. 1	Column. 2	Correction. 3	Period. 4	Station. 1	Column. 2	Correction. 3	Period. 4
Ajmer	2.	—18.	Jan. to July.	Kargil	16.	Data rejected.	Jan. to Sep.
Do.	4.	—·018.	Ditto.	Karwar	3 and 4.	+·004.	Jan. to Nov.
				Khushab	3 and 4.	+·007.	Jan. to Aug.
Akyab	2.	+9.	Jan. to Dec.	Do.	5.	—·006.	June to Aug.
Do.	4.	+·009.	Ditto.	Lashio	3, 4 and 5.	+·008.	Jan. to Dec.
				Mandalay	7, 11, 19 and 22.	Data rejected.	Jan. to May.
Amraoti	3 and 4.	+·004.	Jan. to Nov.	Marmagao	3 and 4.	+·004.	Jan. to Dec.
Angul	3, 4 and 5.	—·005.	Jan. to Sep.	Minbu	3, 4 and 5.	+·009.	Jan. to Aug.
				Monywa	2.	—13.	Jan. to Sep.
Do.	10 and 11.	—0·3.	Ditto.	Do.	4.	—·013.	Ditto.
Balasore	2.	+1.	Jan. to Mar.	Multan	2.	—13.	Feb. to Sep.
				Do.	4.	—·013.	Ditto.
Do.	3, 4 and 5.	—·006.	Jan. to Dec.	Do.	19.	—·050.	Feb. to June.
Balehonnur	2.	—51.	Ditto.	Do.	22.	—9.	Ditto.
Barmer	2.	+7.	Jan. to Mar.	Murree	3 and 5.	—·012.	Jan. to Aug.
Cawnpore	10, 11, 12 and 13.	Data rejected.	Jan. and Feb.	Myitkyina	2.	+13.	Ditto.
				Nagpur	3, 4 and 5.	+·004.	Jan. to Dec.
Chanda	3, 4 and 5.	+·004.	Jan. to Dec.	Negapatam	3, 4 and 5.	—·005.	Jan. to Sep.
Cocanada	3, 4 and 5.	+·004.	Mar. to Dec.	Nizamabad	3 and 4.	+·004.	Jan. to June.
Cuddalore	2.	—3.	Jan. and Feb.	Parachinar	3, 4 and 5.	—·007.	Jan. to Dec.
Cuddapah	3 and 4.	—·011.	Jan. to June.	Patna	10 and 11.	—0·7.	Jan. to Aug.
Dalbandin	16 and 17.	+0·4.	Apr. to June.	Pusa	10 and 11.	+0·7.	Jan. to Sep.
Delhi	16 and 17.	—0·5.	Jan. to Dec.	Do.	16.	—0·3.	Ditto.
Dhubri	3, 4 and 5.	+·010.	Jan. to Aug.	Ranchi	3, 4 and 5.	—·012.	Aug. to Dec.
Dibrugarh	3 and 4.	+·006.	Ditto.	Rawalpindi	3, 4 and 5.	—·005.	Jan. to Aug.
Dwarka	3, 4 and 5.	+·004.	Jan. to Dec.	Do.	16 and 17.	+0·4.	Oct. and Nov.
Gurdaspur	10.	—0·4.	Jan. to Oct.	Sandheads	2.	—4.	Jan. to May.
Gwador	2.	+17.	Jan. to Dec.	Do.	2.	+5.	June to Dec.
Jagdalpur	3, 4 and 5.	+·010.	Ditto.	Sandoway	3 and 5.	—·006.	Jan. to Aug.
Jalpaiguri	16 and 17.	—0·4.	Ditto.	Satara	3 and 5.	Data rejected.	June and July.
Jubbulpore	3, 4 and 5.	+·004.	Ditto.	Saugor	6 and 7.	—0·3.	Jan. to Dec.
Kalat	4.	Data rejected.	July to Dec.	Seoni	2.	—3.	Jan. and Feb.
Kalimpong	2.	+46.	Jan. to Aug.	Do.	14.	—0·3.	Jan. to Dec.
Do.	3 and 4.	—·013.	Jan. to July.	Surat	3, 4 and 5.	+·004.	Ditto.
Do.	5.	—·013.	Mar., Apr., June and July.	Toungoo	3, 4 and 5.	—·012.	Jan. to June.
				Vizagapatam	3, 4 and 5.	+·005.	Mar. to Dec.
Kanker	3 and 5.	+·009.	Jan. to Dec.	Zahidan	16 and 24.	Data rejected.	Sep. to Dec.
Kanpetlet	2.	+48.	Jan. to Dec.				

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
JANUARY.		
Pages 4-5.		
Monywa . .	5.	29·656.
Sibsagar . .	14, 15 and 20.	50·8, 64·2 and ·435.
Tezpur . . .	5.	29·703.
Barisal . .	5 and 20.	29·944 and ·435.
Sandheads . .	3, 4 and 5.	30·030, +·023 and 29·954.
Jalpaiguri . .	18 to 23.	·368, —·028, ·420, 90, —1 and 63.
Page 6.		
Pusa . . .	18, 19, 21 and 22.	·350, —·010, 87 and —2.
Motihari . .	13.	20.
Patna . . .	13.	5, 20, 21.
Gorakhpur . .	13.	20.
Delhi . . .	18, 20 and 21.	·207, ·236 and 66.
Pages 8-9.		
Naushahro . .	28 and 32.	+0·42 and +2·3.
Drigh Road (Karachi)	26 and 46 to 52.	2·9, 3, 1, 2, 4, 5, 3 and 1.
Page 10.		
Guna . . .	3 and 5.	28·443 and 28·358.
Sutna . . .	3, 4 and 5.	28·991, +·029 and 28·901.
Pendra . . .	3, 4 and 5.	27·957, +·003 and 27·877.
Pages 12-13.		
Kalimpong . .	1, 5 and 53.	Kalimpong,* 26·051 and Kalimpong.*
Mahableshwar .	*Omit* the figures in column 25.	
Kodaikanal . .	7 and 11.	—0·9 and —0·4.
Footnote—*Insert* "* 8 hrs. observations for 29 days and 17 hrs. observations for 30 days."		
Page 15.		
Bushire . .	27 and 28.	0·77 and —1·96.
Page 16.		
Gurdaspur . .	12 and 14.	·264 and 92.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
FEBRUARY.		
Pages 20-21.		
Monywa . .	33 and 34.	1·6 and —0·1.
Sibsagar . .	6, 7, 14, 15, 20, 24, 25, 33 and 34.	73·6, +1·0, 57·8, 67·2, ·488, 9·0, +2·5, 2·7 and +1·0.
Noakhali . .	30.	20.
Barisal . . .	5, 17, 20, 33 and 34.	29·836, 67·1, ·513, 2·5 and +1·2.
Jalpaiguri . .	18 to 23.	·452, +·031, ·455, 87, +1 and 58.
Page 22.		
Pusa . . .	2.	167.
Motihari . .	5.	29·626.
Patna . . .	13.	2, 11.
Delhi . . .	18 and 20.	·334 and ·306.
Pages 24-25.		
Multan . . .	7 and 11.	—1·7 and +5·1.
Leh . . .	3.	19·628.
Naushahro . .	28 and 32.	+0·11 and +1·1.
Drigh Road (Karachi).	45, 48, 49, 50 and 52.	2, 3, 9, 10 and 0.
Page 26.		
Bangalore . .	18, 19 and 20.	·487, +·006 and ·332.
Pages 28-29.		
Darjiling . .	12, 13, 24 and 25.	34, 5, 5·2 and +0·5.
Kalimpong . .	5.	25·979.
Pachmarhi . .	5.	26·406.
Kodaikanal . .	7, 11 and 13.	+0·1, —0·1 and 12.
Page 32.		
Gurdaspur . .	12 and 14.	·361 and 87.
Razmak . .	16.	2·4.
MARCH.		
Pages 36-37.		
Sandoway . .	*Omit* the figure in column 30.	
Minbu . . .	18 to 20, 33 and 34.	·469, —·040, ·434, 3·2 and —0·8.
Monywa . .	33 and 34.	1·6 and —0·3.
Sibsagar . .	14, 17, 18 and 19.	66·0, 68·8, ·562 and +·018.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
MARCH—*contd.*		
Noakhali . .	9, 12, 13, 18, 19, 20, 26, 44, 45, 47 and 48.	16, 62, 12, ·688, —·045, ·682, 2·8, 2, 1, 6 and 12.
Sandheads . .	3, 4 and 5.	29·852, —·021 and 29·764.
Jalpaiguri . .	18 to 23.	·499, —·005, ·432, 71, —6 and 37.
Pages 38-39.		
Pusa . . .	16.	61·2.
Lucknow . .	13 and 21.	1, 2 and 46.
Delhi . . .	18 and 20.	·368 and ·349.
Hissar . . .	Number of wind frequencies in columns 35 to 52, printed against Hissar, should be read against Ambala and *vice versa*.	
Ambala . .		
Pages 40-41.		
Multan . . .	7 and 11.	+2·1 and +0·4.
Kalat . . .	14.	39·1.
Naushahro . .	28 and 32.	—0·21 and —0·5.
Chhor . . .	10.	57·3.
Page 42.		
Umaria . .	5.	28·250.
Seoni . . .	2.	2,027.
Bangalore . .	18 to 20.	·485, —·035 and ·285.
Pages 44-45.		
Darjiling . .	33 and 34.	6·4 and +1·7.
Kodaikanal . .	7 and 11.	+0·5 and —0·9.
Page 48.		
Messa (Salona) .	5.	5 days.
Gurdaspur . .	12.	·388.
APRIL.		
Pages 52-53.		
Mergui . . .	13.	4, 26, 27.
Monywa . .	27, 28, 33 and 34.	0·62, —0·18, 1·9 and —0·4.
Sibsagar . .	15, 18, 19, 21, 22 and 24 to 26.	77·3, ·607, —·051, 80, —10, 7·0, —0·3 and 7·0.
Gauhati . .	9.	23.
Noakhali . .	20.	·788.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
APRIL—*contd.*		
Barisal . . .	14 and 20.	79·8 and ·718.
Midnapore . .	20.	·540.
Jalpaiguri . .	18 to 20 and 23.	·494, —·161, ·392 and 31.
Page 54.		
Chandbali . .	22.	+13.
Pusa . . .	16, 18 and 19.	64·6, ·406 and —·168.
Delhi . . .	18 and 20.	·482 and ·515.
Hissar . . .	19.	+·024.
Sialkot . . .	20.	·395.
Pages 56-57.		
Khushab . .	11.	—4·2.
Multan . . .	7 and 11.	—6·8 and —2·9.
Gilgit . . .	29 and 30.	0·08 and 14.
Dalbandin . .	18 to 20.	·333, +·075 and ·306.
Nokkundi . .	21.	38.
Naushahro . .	28 and 32.	—0·02 and —0·2.
Page 58.		
Seoni . . .	2.	2,027.
Pages 60-61.		
Trivandrum . .	12 and 13.	75 and 4, 5, 6.
Maymyo . .	33 and 34.	1·5 and —0·8.
Kodaikanal . .	7 and 11.	—0·8 and —0·8.
Page 62.		
Gwador . .	3.	29·786.
Jask . . .	10 and 11.	70·9 and —1·6.
Page 64.		
Gurdaspur . .	12.	·397.
Zahidan . .	*Omit* the figures in columns 11, 12 and 14.	
MAY.		
Pages 68-69.		
Diamond Island .	5.	29·622.
Gwa . . .	13.	4 days.

Reference. 1	Column. 2	Replace the existing figures, if any, by 3
MAY—*contd.*		
Yamethin . .	5.	28·922.
Sibsagar . .	14, 15, 18 to 20, 26 to 28, 33 and 34.	75·7, 80·9, ·776, —·024, ·828, 7·0, 11·12, —0·77, 3·7 and +1·6.
Gauhati . .	10, 11, 27, 28, 33 and 34.	73·1, +0·8, 7·38, —1·33, 3·2 and +1·6.
Barisal . . .	5, 14 and 18 to 20.	29·554, 86·8, ·934, —·013 and ·893.
Dinajpur . .	28.	+2·59.
Jalpaiguri . .	18 to 23.	·750, —·043, ·811, 80, —3 and 66.
Page 70.		
Pusa . . .	16, 18 and 19.	75·6, ·751 and —·026.
Gaya . . .	12 and 13.	71 and 1.
Delhi . . .	18 and 20.	·574 and —·005.
Pages 72-73.		
Multan . . .	7 and 11.	+0·8 and —0·3.
Leh . . .	33.	3·9.
Kalat . . .	10, 11, 18 and 19.	46·7, +1·9, ·344 and +·064.
Dalbandin . .	18 to 20.	·368, +·097 and ·346.
Las Bela . .	8.	116.
Jaipur . . .	8.	113.
Page 74.		
Umaria . .	21.	16.
Seoni . . .	2.	2,027.
Pages 76-77.		
Vellore . . .	8 and 9.	111 and 24, 25.
Calimpong . .	5, 10 to 13, 18, 19, 24 to 26 and 33.	25·816, 64·1, +2·0, 60, 20, ·549, —·014, 5·6, +1·4, 7·6 and 7·4.
Mussooree . .	16, 18, 19, 21 and 22.	50·8, ·191, —·118, 27 and —22.
Kodaikanal . .	7 and 11.	+3·6 and +1·4.
Page 80.		
Gurdaspur . .	12.	·406.
Razmak . .	16.	2·5.
Footnote—*Omit* "(*b*)—mean of 29 days."		
Dalhousie . .	3.	0·05.
Lachung . .	3 to 8.	6·13, +0·13, 0·81, 19, 16 and 0.

Reference. 1	Column. 2	Replace the existing figures, if any, by 3
JUNE.		
Pages 84-85.		
Diamond Island .	3 and 4.	29·678 and +·010.
Kyaukpyu . .	3 to 5 and 20.	29·657, +·021, 29·594 and ·942.
Yamethin . .	5.	28·949.
Monywa . .	20, 27, 28, 33 and 34.	·856, 3·41, —2·16, 4·8 and +1·4.
Sibsagar . .	5, 14, 15, 18, 19, 21 and 22.	29·201, 78·3, 81·3, ·869, —·052, 91 and 0.
Gauhati . .	5 to 9, 18, 19 and 33 to 36.	29·305, 86·6, —2·9, 94, 26, ·866, —·041, 1·9, +0·6, 1 and 3.
Do. . .	*Omit* the figures in columns 27 to 32.	
Asansol . .	5.	29·005.
Jalpaiguri . .	18 to 20.	·865, —·040 and ·917.
Page 86.		
Pusa . . .	16, 18 and 19.	78·8, ·924 and —·002.
Patna . . .	13.	11, 12.
Lucknow . .	19.	+·105.
Delhi . . .	18 and 20.	·554 and ·475.
Lahore . . .	20.	·382.
Page 88.		
Multan . . .	7.	+3·3.
Dalbandin . .	18 to 20.	·423, +·149 and ·616.
Pages 90-91.		
Amraoti . .	27 and 28.	8·57 and +2·05.
Satara . . .	*Omit* the figures in columns 3 and 5.	
Page 92.		
Murree . . .	13.	17.
Kodaikanal . .	7 and 11.	+2·6 and +1·1.
Page 94.		
Footnote—*Read* "a—mean of 29 days" *for* "a—mean of 30 days."		
Page 96.		
Gurdaspur . .	12.	·534.
Panchgani . .	17.	9·39.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
JULY.		
Pages 100-101.		
Diamond Island .	26.	8·7.
Mandalay . .	3 to 5.	29·387, —·016 and 29·265.
Monywa . .	33 and 34.	4·5 and +0·7.
Sibsagar . .	14, 15 and 20.	80·9, 87·4 and ·974.
Barisal . . .	20, 24, 25, 33 and 34.	·954, 8·5, +0·6, 4·7 and +2·0.
Asansol . .	3 to 5, 20 and 24 to 26.	29·067, —·030, 28·986, ·927, 8·5, +0·2 and 8·5.
Jalpaiguri . .	18 to 20.	·951, 0 and ·984.
Page 102.		
Pusa . . .	18 and 19.	1·008 and +·018.
Delhi . . .	18 and 20.	·921 and ·893.
Page 106.		
Satara . . .	*Omit* the figures in columns 3 and 5.	
Page 108.		
Kodaikanal . .	7 and 11.	+0·8 and +0·6.
Page 112.		
Gurdaspur . .	12.	·882.
Yatung (Chumbi) .	6 and 7.	51·3 and —0·3.
AUGUST.		
Pages 116-117.		
Monywa . .	33 and 34.	3·8 and +0·6.
Sibsagar . .	14, 15 and 20.	80·2, 84·1 and ·923.
Tezpur . . .	18 to 20, 33 and 34.	·930, —·008, ·921, 1·6 and 0.
Barisal . . .	20.	·928.
Jalpaiguri . .	18 to 22.	·899, —·052, ·935, 91 and —1.
Page 118.		
Pusa . . .	18 and 19.	·952 and —·039.
Delhi . . .	18 and 20.	·858 and ·840.
Page 120.		
Fort Sandeman .	5.	25·124.
Page 122.		
Umaria . .	5.	28·043.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
JULY—*contd.*		
Pages 124-125.		
Shillong . .	5.	24·926.
Kalimpong . .	3 to 5 and 26.	25·862, —·010, 25·797 and 8·2.
Muktesar . .	33.	5·8 (*m*).
Mussooree . .	33.	3·6.
Kodaikanal . .	7 and 11.	+0·3 and +0·5.
Page 128.		
Gurdaspur . .	12.	·842.
SEPTEMBER.		
Pages 132-133.		
*Port Blair . .	20.	·855.
Kyaukpyu . .	3, 4 and 26.	29·706, —·032 and 8·5.
Yamethin . .	5.	28·990.
Tezpur . . .	20.	·932.
Midnapore . .	14.	81·1.
Asansol . .	5, 15, 17 to 20 and 33.	29·128, 85·0, 78·0, ·916, —·022, ·862 and 4·3.
Jalpaiguri . .	18 to 20 and 23.	·899, —·009, ·896 and 81.
Page 134.		
Pusa . . .	18 and 19.	·951 and —·017.
Roorkee . .	20.	·751.
Delhi . . .	18 and 20.	·792 and ·727.
Page 138.		
Satara . .	*Omit* the figures in columns 3 and 5.	
Pages 140-141.		
Cherrapunji . .	32.	+6·1.
Darjiling . .	27 and 28.	22·41 and +4·03.
Kalimpong . .	20.	·672.
Kodaikanal . .	7 and 11.	+1·2 and 0.
Page 144.		
Gurdaspur . .	12 and 14.	·736 and 76.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
OCTOBER.		
Pages 148-149.		
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Satkhira . .	9.	4 days.
Midnapore . .	15 and 20.	86·4 and ·676.
Asansol . .	17 and 20.	71·9 and ·581.
Jalpaiguri . .	18 to 20.	·690, —·077 and ·765.
Page 150.		
Pusa . . .	10 and 11.	68·6 and —2·9.
Delhi . . .	18 and 20.	·455 and ·470.
Rawalpindi . .	10, 11 and 18 to 20.	55·5, —1·1, ·330, —·063 and ·319.
Pages 156-157.		
Kanpetlet . .	20.	·488.
Kalimpong . .	1, 5, 15, 17 and 53.	Kalimpong,* 25·971, 66·0, 61·0 and Kalimpong.*
Kodaikanal . .	7, 11 and 16.	+0·8, +0·1 and 52·7.
Colombo . .	3 and 4.	29·827 and —·022.
Footnote—*Insert* "* 8 hrs. observations for 30 days and 17 hrs. observations for 29 days."		
Page 160.		
Lumding . .	5.	5 days.
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Pages 164-165.		
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Tezpur . . .	13.	4 days.
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Dinajpur . .	22, 33 and 34.	—4, 0·6 and —0·7.
Jalpaiguri . .	18 to 20.	·555, +·001 and ·596.

Reference.	Column.	Replace the existing figures, if any, by
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Rawalpindi . .	18 to 22.	·291, +·034, ·269, 72 and +7.
Page 169.		
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Page 172.		
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Page 190.		
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Page 192.		
Lachung . .	5.	0·01.

Reference.	Column.	Replace the existing figures, if any, by
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Page A7.		
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Page A8.		
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Tehran—Dec. .	32.	+1·2.
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Page A30.		
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Page A32.		
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Page A36.		
Lahore—Oct. .	19.	—0·5.
Footnote on page A36—*Read* "(*d*) mean of 27 days" *instead of* "(*d*) mean of 26 days".		
Page A37.		
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Page A39.		
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Page A41.		
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,, —Feb. .	23-24.	1·9.
,, —Sept. .	17-18.	1·1.
,, —Nov. .	19-20.	0·5.
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GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1935

ANNUAL SUMMARY

PART A.

SUMMARY OF WEATHER WITH TABLES

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Published by Authority of the Government of India

UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.,

Director General of Observatories.

PUBLISHED BY MANAGER OF PUBLICATIONS, DELHI.
PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, NEW DELHI.
1937.

Price Rs. 4-4 or 7s.

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INDIA WEATHER REVIEW, 1935

ANNUAL SUMMARY

PART A.

Weather and Rainfall of 1935.

Summary.—The cold weather period, January and February 1935, was characterised by abundant rainfall over northwest India and the west United Provinces ; Hyderabad, too, recorded a large excess of rainfall while unusually dry conditions prevailed over Burma and the Central Provinces. Thunderstorms were relatively infrequent in two out of the three months of the hot weather period, March to May, and rainfall was therefore below the average. The monsoon arrived at about the usual time. There were no pronounced breaks in the current and fairly well distributed rain fell over the country. The monsoon rainfall was normal in amount over the country as a whole, the only noteworthy departures from the average being the defects of 53% and 30% over Baluchistan and Sind respectively. From October to December, weather was unusually dry over the greater part of the country.

An intense cold spell overran northern and central India during the middle week of January resulting in extensive frost damage to crops. Temperatures reached during this spell constitute a record for low temperatures for those areas for January and February combined.

I.—*The Cold Weather Period, January and February.*—In *January*, four western disturbances passed across north-west India and gave a large excess of rainfall there. The last of these disturbances developed into a storm in the northeast Arabian Sea towards the end of the month. In *February*, six western disturbances affected the weather over north India. Rainfall was above normal in northwest India, particularly in Baluchistan and the southwest Punjab.

Associated with the strong cold northerly winds in the rear of the second western disturbance of January, an intense cold spell overran northern and central India and the north Bombay Deccan during the central week of that month, resulting in extensive frost damage to crops, particularly cotton, tobacco and grapes, in Gujarat, Central India and the Bombay Deccan. At several places, the thermometer fell to values which constituted a record for low temperatures for January and February combined. A few human lives and some cattle were also reported to have been lost in Gujarat, Sind and the Punjab as a consequence of the intense cold.

The total rainfall during the cold weather period was in large excess in the Punjab, the North-West Frontier Province, Baluchistan, Sind, Gujarat and south Hyderabad, in slight to moderate excess in Chota Nagpur, Bihar, the United Provinces, Kashmir, Rajputana, east Central India, north Hyderabad and southeast Madras, normal in Assam, Bengal, Mysore and Malabar, in slight to moderate defect in Upper Burma, west Central India, the Central Provinces (including Berar) and the Bombay Deccan and in large defect elsewhere.

The mean maximum temperature of the period as a whole was below normal in the Punjab, the North-West Frontier Province and Sind, but this was wholly due to the very low day temperatures over these divisions during the month of January. The mean minimum temperature of the period was above normal in Mysore. Skies were more clouded than usual in Assam, Bihar and Orissa, the Punjab, Hyderabad, Mysore and the Madras Presidency and less clouded than usual in Rajputana. Humidity was in excess in the Punjab.

II.—*The Hot Weather Period, March to May.*—*March* was marked by deficient rainfall over most of the country, weather being wholly dry in many divisions. The month's rainfall was considerably in defect over northwest India, despite the passage of seven western disturbances across the country, while, in northeast India and the Peninsula, thunderstorm activity was unusually low.

In *April*, five western disturbances affected the weather over northwest India. While the last two of these were feeble, the first three were responsible for the large excess of rainfall, attended sometimes with thunderstorms and hail, recorded in northwest India

during the month. An excess of thunderstorm rain also occurred generally in the interior of the Peninsula and the central parts of the country.

In connection with a temporary advance of the monsoon in the southeast Bay of Bengal, a depression formed in the Andaman Sea on the 26th April and caused widespread rain in the Bay Islands, Tenasserim, Irrawaddy and Pegu between the 25th and 27th with locally heavy falls in Tenasserim on the 26th.

During *May*, six western disturbances passed across northwest India, but, except in Baluchistan where the rainfall was only in slight excess, the precipitation over northwest India was in large defect. An advance of the monsoon occurred in the Bay of Bengal as far north as the Andaman Sea during the third week of May and widespread rain fell in Lower Burma during the latter half of the month. An extension of the monsoon into Upper Burma took place towards the end of the month. Normal thunderstorm activity was experienced in Assam while, over the rest of northeast India and in the Deccan and the Madras Presidency, it was below normal. On the whole, rainfall was deficient all over the country excepting the Bay Islands, Assam and Baluchistan.

Temperatures were markedly above normal in the Konkan between the 8th and 12th of March, maximum temperature being as high as 100°·6 and 100°·7 F. in Bombay on the afternoon of the 9th and 10th respectively, constituting the highest recorded at Bombay during the last 78 years. There was a long spell of markedly low temperatures generally over northwest India and particularly in and around the Punjab extending for about a fortnight after the 5th April as a consequence of frequent and widespread rain and thunderstorms there. High day temperatures prevailed over the Gangetic plain and Upper Burma on many days during May, particularly in the second week, in the east Central Provinces during the second week and generally in the central parts of the country, Mysore and parts of the Madras Presidency and the Deccan during the last week of the month. Several deaths due to heatstroke were reported during the last two weeks of May from the United Provinces, Delhi and the Madras Presidency ; crops were also reported to have suffered considerable damage in the United Provinces owing to excessive heat.

The total rainfall of the hot weather period was in large excess in the Bay Islands, in slight to moderate excess in the east and north Punjab, the North-West Frontier Province and Sind, normal in the southwest Punjab, Kashmir, Berar and Hyderabad, in slight to moderate defect in Burma, Assam, Bengal, Orissa, the west United Provinces, Baluchistan, Rajputana, the Central Provinces (outside Berar), Mysore, Malabar, southeast Madras and the Madras Deccan and in large defect elsewhere.

The mean maximum temperature of the period was above normal in Bengal, May being particularly hot there ; it was below normal in the Punjab, where, during April, it fell to as much as 8° below the average. The mean minimum temperature of the hot weather period was below normal in Rajputana and Central India. Cloud amount was in excess in Mysore and the Madras Presidency. The air was drier than usual in Bihar and Orissa, the United Provinces, Rajputana, the Bombay Presidency (outside Sind), Central India, the Central Provinces (including Berar) and Hyderabad.

III.—*The Southwest Monsoon Period, June to September.*—The chief features of the weather during *June* were the establishment or extension of the monsoon into most parts of the country and the occurrence of destructive duststorms associated with two out of four western disturbances that passed over north India.

The Bay monsoon, which established itself in Lower Burma during the third week of May, extended into Upper Burma by the beginning of June and became established in Bengal and Assam in the third week. The Arabian Sea branch of the monsoon advanced in the southeast Arabian Sea towards the end of the first week of June, was established in Malabar by the 12th and, strengthening at the same time, extended northwards into the Konkan on succeeding days. A further strengthening of the monsoon in Kanara and the Konkan and its extension into the Bombay Deccan took place under the influence of a storm which formed in front of the advancing monsoon current in the east Arabian Sea off the Konkan on the 17th. An advance of the monsoon into Bihar and Orissa, the central parts of the country and east Gujarat and temporarily into east Rajputana occurred in the last week of the month.

The monsoon became established in the United Provinces, Rajputana and Gujarat in the first week of *July*. A storm, which formed near Saugor Island on the 8th and advanced as a deep depression to Rajputana before dying on the 13th, strengthened the monsoon in Orissa, Chota Nagpur, the central parts of the country, Gujarat, Rajputana and the United Provinces and brought it into the Punjab and Sind. Under the influence of a depression which formed off the Ganjam coast by the 15th and crossed the Orissa coast

by the 22nd, the monsoon was strong in Orissa, the central parts of the country, the north Madras coast, parts of the Deccan, Gujarat and east Rajputana. Unsettled conditions in the northwest angle of the Bay of Bengal which passed inland on the 25th and 28th maintained the activity of the monsoon in Burma, northeast India, the central parts of the country, the north Madras coast and the United Provinces during the last week of July. On the whole during the month, the monsoon was strong in Orissa, the central parts of the country, Gujarat and Rajputana.

The monsoon strengthened in the central parts of the country, northeast India and Burma in association with a depression in the northwest angle of the Bay which crossed the Orissa-Bengal coast on the 5th *August*. For the first three weeks of the month it was active in the east and north Punjab and the west United Provinces, especially in the hill districts. It was also active, except for brief lulls, in northeast India (outside Orissa) during that period. In the Peninsula, however, the monsoon was generally weak during the first fortnight of the month. It also weakened in Burma during the third week, but strengthened in Lower Burma and the west coast of the Peninsula during the last seven days of the month when it withdrew temporarily from the interior of the country. Widespread thunderstorm rain occurred over the Peninsula during the latter half of the month and accounted for a large excess of rainfall in parts thereof.

Early in the first week of *September*, the monsoon strengthened in the Deccan, Upper Burma and northeast India. It also strengthened generally over the country except northwest India in association with a depression which, forming over the head of the Bay of Bengal on the 6th, crossed the Orissa coast three days later and filled up over the Central Provinces during the second week of the month. This activity was maintained up to the 18th after which the monsoon weakened in the Peninsula. A depression formed in the Bay off the Orissa-Ganjam coast on the 19th. Travelling northwards, it crossed the Bengal coast on the 21st and filled up over Bihar in the course of the next two days; it caused widespread rain in northeast India with locally heavy falls in Bihar between the 19th and 23rd, and in the east United Provinces on the 20th. The monsoon withdrew from the country excepting Burma and northeast India during the third week, the withdrawal being completed by the end of the month. The month's rainfall over the country was on the whole normal despite a weak monsoon in the interior of the Peninsula and north-west India generally.

Temperatures were markedly above normal—the maximum sometimes rising to 15° above it—in the United Provinces and east Central India during most days of June. Bihar and Orissa, the Central Provinces and parts of the Peninsula had also fairly long spells of high temperatures during the first half of the month. Excessively high temperatures in the United Provinces, Hyderabad and the north Madras coast are reported to have caused a number of deaths due to sun or heat stroke, about a hundred deaths being reported from the United Provinces during the first week of June. Day temperatures were markedly below normal between the 23rd and 25th along the northwest frontier and in Kashmir, the temperature being as much as 15—20° below normal in the latter division.

There was a spell of markedly high temperatures between the 4th and 8th of *July* mainly over the Punjab and the North-West Frontier Province; these temperatures were lowered by the extension of the monsoon into that region. In August, day temperatures were markedly below normal in Kashmir for nearly a week after the 18th. During September, day temperatures were below normal in Berar and Hyderabad generally during the second week.

The total rainfall during the monsoon season was in slight excess in Assam, east Rajputana, Berar, the west Central Provinces, north Hyderabad and the Madras Deccan, in slight to moderate defect in the west United Provinces, the Punjab, Kashmir, the North-West Frontier Province, Sind and Malabar, and in large defect in Baluchistan; it was normal over the rest of the country.

The mean temperatures, humidity and cloud amount were normal during the season.

IV.—*The Period of the Retreating Southwest Monsoon, October to December.*—The first week of *October* was characterised by the transition from the southwest to the northeast monsoon type of weather, widespread thunderstorm rain falling in Burma and the western half of the Peninsula. The northeast monsoon became established over the south of the Bay of Bengal in the second week and remained more or less vigorous over the south of the Peninsula throughout the month. Two storms formed during the third week, one in the southwest Bay of Bengal and the other in the central Bay. The former passed over to the Arabian Sea as a deep depression causing widespread rain in the Peninsula while the latter moved northeastwards and crossed the Chittagong coast, causing widespread rain in Burma and the Orissa and Bengal coasts. Two western disturbances passed across northwest

India, but the resultant rainfall was in defect except over the North-West Frontier Province and Kashmir.

During the first week of *November*, a depression formed in the north Andaman Sea, travelled to the Arakan coast and caused fairly widespread thunder-rain in Burma. In association with a strengthening of the northeast monsoon in the south Bay, a depression formed to the east of Ceylon during the second week, intensified into a storm and passed as a deep depression across south Madras into the southeast Arabian Sea, causing widespread and locally heavy rain in the south of the Peninsula. Six western disturbances were responsible for an excess of rain in this month in the east and north Punjab and Kashmir.

As many as eleven western disturbances passed across northwest India during *December* and precipitation was satisfactory in the plains of northwest India although deficient in the surrounding hills. A depression formed in the Andaman Sea on the 6th causing widespread rain in Tenasserim between the 6th and 9th.

The widespread rain in the Peninsula associated with the storm in the Bay of Bengal during October kept the days cool there between the 17th and 21st of that month. Temperatures were also markedly below normal along the northwest frontier and in the Punjab and Kashmir between the 12th and 15th, while Gujarat, west Central India, Berar, the west Central Provinces and Hyderabad experienced high night temperatures between the 26th and 30th. Maximum temperatures were below normal generally over northwest India during the second week of December.

The total rainfall during the period October to December was in large defect in northeast India (including Orissa), the east United Provinces, Baluchistan, Sind, Gujarat, east Central India and the Central Provinces (including Berar), in slight to moderate defect in the west United Provinces, the Punjab, the North-West Frontier Province, west Rajputana, the Konkan, south Hyderabad, the Madras Deccan and the north Madras coast, normal in the Bay Islands, southeast Madras, Mysore, north Hyderabad, west Central India and Kashmir, and in slight to moderate excess elsewhere.

The mean maximum temperature of the season was above normal in Bengal and Bihar and Orissa. Cloudiness was in excess in Central India while humidity was in defect in Bihar and Orissa.

V.—*Year.*—Taking the year as a whole, rainfall was in slight excess in the Bay Islands, east Rajputana and Berar, in slight defect in Bengal, Orissa, the United Provinces, Sind, the Konkan, Malabar and the north Madras coast and normal elsewhere. Averaged over the plains of India, the year's total rainfall was in defect by 4%.

TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS FOR THE YEAR 1935.

	RAINFALL.*				DEPARTURE FROM NORMAL OF				
							8 hrs. L. M. T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
Division.	"	"	"		°	°	"	%	
1. Burma	118·65	114·14	+4·51	+4	—0·1	+0·2	—·010	—1	+0·4
2. Assam	89·58	88·65	+0·93	+1	+0·1	+0·3	—·010	—1	+0·5
3. Bengal	63·26	77·73	—14·47	—19	+1·4	+0·1	—·016	—3	+0·3
4. Bihar and Orissa	45·88	52·50	—6·62	—13	+1·1	—0·3	—·035	—5	+0·3
5. United Provinces	36·21	41·57	—5·36	—13	+0·7	—0·9	—·039	—4	+0·1
6. Punjab	19·82	19·05	+0·77	+4	—1·6	—0·2	—·024	—2	+03
7. North-West Frontier Province	15·67	11·29	+4·38	+39	—1·0	—0·9	—·051	—2	+0·4
8. Sind	4·45	5·78	—1·33	—23	—0·7	0	—·010	0	—0·2
Sub-Division.									
1. Bay Islands	124·16	116·42	+7·74	+7	—1·7	—0·1	—·032	—1	+0·1
2. Lower Burma	160·71	154·91	+5·80	+4	—0·1	+0·4	—·008	—1	+0·7
3. Upper Burma	52·53	50·07	+2·46	+5	—0·2	—0·1	—·012	—2	0
4. Assam	89·58	88·65	+0·93	+1	+0·1	+0·3	—·010	—1	+0·5
5. Bengal	63·26	77·73	—14·47	—19	+1·4	+0·1	—·016	—3	+0·3
6. Orissa	49·59	58·50	—8·91	—15	+1·1	—0·1	—·018	—2	+0·4
7. Chota Nagpur	46·24	51·72	—5·48	—11	+0·7	—0·8	—·044	—6	+0·4
8. Bihar	43·91	49·77	—5·86	—12	+1·5	—0·2	—·043	—6	+0·2
9. United Provinces, East	34·98	41·61	—6·63	—16	+1·3	—0·7	—·045	—4	—0·1
10. Do. West	37·30	41·54	—4·24	—10	+0·1	—1·1	—·033	—4	+0·3
11. Punjab, East and North	29·42	27·03	+2·39	+9	—0·7	—0·3	—·026	—3	+0·5
12. Do., Southwest	8·59	9·75	—1·16	—12	—1·3	—0·1	—·020	0	0
13. Kashmir	29·29	26·96	+2·33	+9	—2·3	+0·7	—·013	+2	+0·5
14. North-West Frontier Province	15·67	11·29	+4·38	+39	—1·0	—0·9	—·051	—2	—0·4
15. Baluchistan	9·42	7·99	+1·43	+18	—1·7	+0·3	+·009	+3	+0·4
16. Sind	4·45	5·78	—1·33	—23	—0·7	0	—·010	0	—0·2
17. Rajputana, West	12·21	12·70	—0·49	—4	—0·4	—0·9	—·041	—3	—0·3

	RAINFALL.*				DEPARTURE FROM NORMAL OF				
							8 hrs. L. M. T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
Division—*contd.*	"	"	"		°	°	"	%	
9. Rajputana	23·54	20·38	+3·16	+16	—1·1	—1·3	—·026	—2	+0·1
10. Bombay	36·33	37·79	—1·46	—4	—0·2	—0·2	—·029	—3	—0·3
11. Central India	36·73	37·45	—0·72	—2	+0·3	—0·9	—·027	—3	0
12. Central Provinces	46·41	46·80	—0·39	—1	+0·2	+0·2	—·029	—3	+0·2
13. Hyderabad	33·43	33·01	+0·42	+1	—0·3	+0·7	—·029	—1	+0·6
14. Mysore	35·56	31·74	+3·82	+12	+1·1	+1·0	—·010	—1	+0·5
15. Madras	42·36	48·45	—6·09	—13	—0·3	+0·7	—·009	—1	+0·6
Mean of India	50·01	51·20	—1·19	—2	—0·1	—0·1	—·023	—2	—0·3
Sub-Division—*contd.*									
18. Rajputana, East	29·21	24·21	+5·00	+21	—1·5	—1·7	—·017	—2	+3·9
19. Gujarat	24·50	24·16	+0·34	+1	—0·2	—0·3	—·033	—3	+0·5
20. Central India, West	33·14	31·17	+1·97	+6	—1·2	—0·6	—·048	—4	+0·5
21. Do. do., East	40·26	43·75	—3·49	—8	+1·8	—1·2	—·006	—2	—0·5
22. Berar	37·66	32·19	+5·47	+17	—0·9	+0·4	—·042	—3	—0·1
23. Central Provinces, West	48·86	46·77	+2·09	+4	0	—0·1	—·021	—2	+0·4
24. Do. do., East	47·06	54·14	—7·08	—13	+0·9	+0·3	—·032	—4	+0·1
25. Konkan	92·19	96·93	—4·74	—5	—0·2	—0·1	—·018	—1	+0·1
26. Bombay Deccan	26·12	28·69	—2·57	—9	—0·1	—0·2	—·032	—3	+0·3
27. Hyderabad, North	34·64	34·58	+0·06	0	—0·7	+0·9	—·059	—4	+0·9
28. Do., South	32·20	31·45	+0·75	+2	0	+0·5	—·006	0	+0·4
29. Mysore	35·56	31·74	+3·82	+12	+1·1	+1·0	—·010	—1	+0·5
30. Malabar	92·63	105·46	—12·83	—12	—0·2	+0·7	+·008	—1	+0·7
31. Madras, Southeast	37·28	39·47	—2·19	—6	—0·4	+1·0	—·025	—3	+1·1
32. Do. Deccan	25·03	25·70	—0·67	—3	—1·0	+0·9	+·011	0	+0·5
33. Do. Coast, North	28·91	40·52	—11·61	—29	0	+0·1	—·007	—1	—0·1

* Based on data from meteorological observatories only as in Monthly Weather Reports. For fuller data see tables XI to XV.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, inches.			Relative humidity, %		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest during the year.	Month	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bay Islands.																						
Port Blair	59	29·773	·008	...	85·4	−1·7	94	IV	76·6	−0·4	69	I, V	80·0	...	76·2	...	·847	−·032	...	83	−1	...
Lower Burma																						
Victoria Point	157	29·709	−·002	29·630	85·0	−0·7	93	III, IV	75·0	+0·1	71	*	78·6	80·3	75·6	75·6	·837	+·007	·819	86	+2	80
Mergui	66	29·791	−·006	29·708	86·2	−1·2	96	IV	73·5	+1·4	67	I, II	78·0	80·8	75·4	76·1	·847	+·016	·837	89	+2	81
Tavoy	19	29·833	−·017	29·754	88·5	+0·6	98	II, III, IV	72·3	+0·6	59	I	76·8	80·6	74·2	76·1	·809	+·004	·840	88	0	81
Amherst	71	29·771	...	29·685	87·0	...	96	III	74·5	...	64	I	78·9	81·3	75·0	76·6	·817	...	·852	83	...	80
Rangoon	18	29·809	−·022	29·719	99·3	+1·0	103	IV	73·2	+0·2	61	I	77·5	82·9	74·0	75·5	·795	−·008	·780	84	−3	71
Tharrawaddy	49	29·780	...	29·685	90·9	...	105	IV, V	70·6	...	51	I	76·2	82·5	73·6	75·5	·807	...	·794	88	...	73
Bassein	27	29·815	−·003	29·731	89·2	+1·0	102	IV	72·5	−0·1	56	I	78·0	81·7	74·4	75·3	·808	−·016	·796	84	−4	74
Diamond Island	41	29·777	−·020	29·711	84·7	−0·6	90	IV, V, X	76·6	+0·9	70	I	79·8	80·5	75·6	75·9	·835	+·003	·833	82	+2	80
Gwa	11	29·812	...	29·740	85·3	...	93	V	70·8	...	53	I, II	76·3	80·7	73·3	75·9	·793	...	·844	86	...	81
Sandoway	28	29·795	...	29·716	...	...	...	...	68·4	...	45	I	76·2	79·5	72·7	75·3	·768	...	·834	84	...	82
Toungoo	158	29·672	−·014	29·567	89·9	0	104	IV, V	70·9	+0·5	53	I	75·0	82·5	71·6	74·3	·741	−·039	·744	84	−2	68
Kyaukpyu	18	29·796	−·008	29·715	84·3	−0·4	95	V	73·6	+0·8	57	I	78·0	80·4	74·6	75·2	·817	−·005	·810	85	−1	78
Akyab	29	29·796	−·002	29·713	85·4	−0·4	96	IV	70·7	−1·0	49	I	76·1	80·0	72·6	74·5	·768	−·033	·804	84	−5	76
Upper Burma																						
Minbu	168	29·649	−·015	29·528	92·0	+0·6	111	V	72·0	+0·6	59	I	77·2	86·6	70·9	73·4	·686	−·012	·659	73	−2	53
Yamethin	644	29·173	−·010	29·062	90·0	−1·1	104	III, V	69·9	+0·1	47	I	75·0	82·5	70·3	73·2	·696	−·005	·703	78	−1	65
Mandalay	252	29·564	−·016	29·440	90·2	...	105	V	69·3	...	44	XII	76·0	84·0	70·6	73·0	·699	...	·672	77	...	59
Monywa	287	29·558	−·017	29·421	92·8	+1·2	112	V	70·7	−0·5	49	XII	76·2	85·7	70·7	74·2	·691	−·011	·705	77	0	59
Lashio	2,802	27·053	−·001	26·948	81·1	−0·5	98	V	60·6	+0·1	38	I, XII	66·2	73·2	62·7	65·6	·543	−·016	·548	82	−4	67
Bhamo	416	29·429	−·018	29·317	85·1	−0·8	104	V	64·9	0	37	I	70·0	78·5	67·2	71·7	·650	−·028	·697	86	−3	72
Myitkyina	476	29·341	−·018	29·227	84·8	+0·7	103	V	65·4	−0·1	40	I	70·1	78·1	66·9	71·2	·641	−·015	·686	84	−3	71
Assam																						
Dibrugarh	348	29·482	−·008	...	81·5	+0·7	97	V	65·2	0	42	I	69·1	...	66·9	...	·656	−·012	...	89	−3	...
Sibsagar	317	29·499	−·017	29·390	..	...	96	V, VII, IX	65·2	−0·5	42	I	69·5	70·6	67·8	71·6	·685	−·013	·723	92	−2	77
Tezpur	258	29·585	−·017	29·445	84·1	+0·9	95	IV, V, VI	67·0	0	47	I	71·5	78·7	68·4	71·8	·676	−·004	·702	85	−4	70
Gauhati	196	29·622	−·023	29·505	84·7	+0·2	99	IV	67·1	+0·8	45	I, XII	71·2	79·2	68·7	72·1	·693	−·006	·705	88	0	70
Dhubri	115	29·703	−·001	29·586	82·8	0	101	IV	68·4	+0·4	48	I	72·3	79·7	69·1	71·5	·687	−·010	·680	84	−3	67
Silchar	96	29·737	−·002	29·619	86·3	+0·2	99	V	66·9	−0·6	45	I	71·2	80·7	69·0	73·6	·703	−·021	·743	89	+2	71
Srimangal	69	29·748	−·008	29·641	87·5	−0·3	99	IV, V	65·5	+0·4	41	I, XII	72·8	79·5	69·9	73·3	·719	+·001	·751	86	−2	74
Bengal																						
Cox's Bazar	36	29·775	−·003	29·699	85·2	+0·3	97	IV	69·5	−0·1	48	XII	75·2	79·5	71·8	73·7	·744	−·034	·761	81	−5	75
Chittagong	87	29·730	−·005	29·643	86·7	+1·8	97	IV	69·4	+0·1	48	I	75·4	79·6	71·0	73·3	·726	−·029	·755	79	−7	73
Noakhali	22	29·776	−·020	29·684	85·4	+0·8	96	III, IV	72·0	+0·7	51	I	76·0	80·9	72·5	74·1	·775	−·002	·767	84	−3	71
Comilla	37	29·767	−·013	29·669	88·5	+2·4	101	V	68·8	+0·1	46	I	75·9	80·6	71·7	73·8	·744	−·018	·758	81	−5	71
Narayanganj	26	29·773	−·011	29·677	88·2	+2·0	100	III	70·7	+0·2	49	I	75·8	81·7	71·7	73·2	·746	−·023	·719	81	−4	65
Mymensingh	62	29·751	−·005	29·645	86·8	+1·8	100	III	68·4	−0·5	47	I	73·5	82·3	70·5	73·5	·726	−·011	·724	86	−1	65
Faridpur	27	29·766	−·021	29·665	87·6	+2·2	102	V	69·0	0	46	I	75·1	80·7	71·7	73·3	·757	−·018	·733	84	−3	69
Barisal	11	29·783	−·007	29·694	87·2	+1·4	99	V	70·6	+0·3	48	I	76·2	81·5	72·1	73·5	·755	−·039	·731	81	−4	67
Khulna	16	29·788	+·004	29·690	87·7	+1·3	99	III, V	70·5	+0·9	46	XII	78·0	80·0	73·1	73·6	·772	+·007	·759	78	−2	73
Jessore	26	29·773	−·003	29·668	88·4	...	103	V	66·9	...	40	XII	76·4	79·5	72·8	73·3	·787	+·016	·756	83	−1	74
Satkhira	...	29·774	−·030	29·677	89·7	+1·7	105	V	69·3	+0·3	45	I, XII	76·8	82·7	72·5	74·2	·766	−·028	·746	80	−4	66
Calcutta	21	29·765	−·010	29·668	89·0	+2·1	108	V	71·6	+0·9	48	I	75·5	83·5	71·9	73·6	·760	−·008	·712	83	0	61
Saugor Island	10	29·779	−·002	29·691	85·2	−0·2	93	IV, V	73·7	+0·3	51	I	78·5	81·0	73·9	74·8	·794	−·033	·798	79	−6	73
Sandheads	20	29·771	−·010	29·691	...	...	...	...	...	...	...	...	80·9	82·3	75·5	76·0	·822	−·023	·824	77	−3	74
Midnapore	148	29·640	−·001	29·537	90·5	+0·7	113	V	70·6	+0·1	48	I, XII	75·2	85·3	70·2	72·6	·697	−·016	·645	77	+1	54
Burdwan	99	29·676	−·020	29·569	90·5	+1·7	112	V	69·8	−0·6	47	I, XII	74·7	84·6	70·4	72·9	·714	−·002	·669	79	0	57
Krishnagar	48	29·737	−·013	29·640	90·7	+2·4	112	V	68·1	−0·8	42	I	75·9	83·2	71·1	72·8	·726	−·016	·681	78	−4	61
Asansol	414	29·360	−·007	29·249	90·9	+1·8	115	VI	69·0	+0·3	45	I	75·1	86·6	67·9	69·8	·621	−·059	·521	69	−6	42
Berhampore	62	29·727	−·009	29·616	89·5	+1·0	112	V	68·1	−1·5	43	I	75·7	83·6	70·4	72·0	·702	−·026	·647	76	−7	57
Bogra	63	29·730	−·013	29·617	88·1	+1·9	109	V	68·1	0	45	I	74·3	82·6	70·1	72·1	·708	−·012	·664	80	−3	60
Malda	108	29·688	+·008	29·584	88·1	+1·1	109	V, VI	67·6	0	43	I	74·7	83·1	69·3	71·6	·676	−·042	·646	76	−5	58
Dinajpur	123	29·667	−·011	29·561	87·0	+1·0	107	V	67·4	+0·5	44	I	72·8	83·7	68·2	71·7	·662	−·032	·653	79	−4	59
Jalpaiguri	271	29·512	−·031	29·411	84·2	−0·1	99	IV, V	66·0	−0·2	45	I, XII	70·8	79·8	65·7	71·3	·651	−·034	·670	83	−3	65

* The lowest minimum temperature was recorded in January, February, July, August, September and December.

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1935.

Cloud amount (tenths of sky.)			Rainfall, inches.				Number of rainy days (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																				STATION.
											8 hrs. L. M. T.										17 hrs. I. S. T.										
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24		26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	
6·0	+0·1	...	124·16	+7·74	8·07	V	123	—15·6	5·4	—0·2	37	40	18	5	13	54	56	48	94	...	...	...	...	...	...	...	...	...	...	**Bay Islands** Port Blair.
																														Lower Burma
7·9	+1·7	8·5	163·28	—3·23	5·48	X	155	—1·7	4·8	—0·7	4	135	50	43	21	57	18	4	33	9	58	50	5	12	102	26	56	47	Victoria Point.
3·9	—0·6	4·7	180·04	+18·80	7·05	VIII	166	+12·2	...	...	0	93	58	110	68	27	0	8	1	2	41	5	55	64	51	0	146	1	Mergui.
6·6	+2·4	7·3	258·88	+44·14	6·24	IX	167	+22·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Tavoy.
7·1	...	6·8	211·62	+21·78	5·01	V	158	+15·0	7·0	...	10	23	93	41	102	26	17	10	48	29	5	11	9	57	81	94	33	16	Amherst.
5·7	—0·2	6·2	106·48	+7·45	4·60	VI	135	+12·7	3·5	+0·2	70	70	10	29	64	47	33	25	17	30	14	3	54	117	72	34	23	18	Rangoon.
7·3	...	7·7	81·75	...	3·17	III	101	...	2·8	...	89	3	46	94	37	35	7	11	43	16	4	7	40	25	84	58	9	122	Tharrawaddy.
6·7	+2·0	8·3	91·68	—17·45	4·36	VII	117	—7·8	...	...	46	42	8	20	50	28	45	52	74	11	4	1	2	11	86	104	48	148	Bassein.
4·7	—0·5	4·7	143·50	+25·00	13·57	VIII	116	+2·2	8·6	...	44	67	10	13	26	65	52	86	2	17	13	3	16	17	88	57	152	2	Diamond Island.
5·4	...	5·8	178·92	+7·36	7·84	IX	126	+7·3	3·9	...	23	2	3	66	15	12	8	25	211	17	4	1	16	9	17	31	193	77	Gwa.
5·9	...	6·5	244·06	...	9·66	VII	122	...	1·5	...	2	63	106	26	32	24	3	2	107	1	6	16	7	24	88	40	11	172	Sandoway.
6·2	+0·7	5·6	92·22	+9·26	6·37	X	102	—12·7	·4	+1·0	35	9	7	92	94	3	20	54	46	7	5	10	86	77	13	3	23	126	Toungoo.
5·8	+0·4	5·8	178·72	—9·07	7·09	VII	113	—16·1	3·3	+1·1	14	105	14	69	23	22	6	19	93	1	2	0	16	28	56	126	49	87	Kyaukpyu.
5·4	+0·4	5·0	162·74	—40·03	5·88	X	112	—13·5	7·3	...	85	114	52	23	26	23	13	10	19	1	6	5	17	54	72	137	72	1	Akyab.
																														Upper Burma
4·1	0	4·4	34·29	—1·09	3·92	XI	46	—11·2	3·4	—1·2	9	0	0	135	41	2	4	105	69	8	0	0	41	40	22	61	60	132	Mînbu.
4·4	+0·5	4·6	36·06	—1·96	2·58	XI	55	—8·3	3·8	...	58	1	0	32	185	2	0	13	74	16	0	3	9	152	4	1	3	177	Yamethin.
4·9	+1·1	5·1	33·45	+0·29	3·95	XI	47	—3·8	4·2	...	25	7	7	50	175	7	6	12	76	35	24	18	34	79	5	8	10	152	Mandalay.
3·8	—1·3	4·2	39·89	+8·84	7·66	X	54	+9·9	2·6	+0·4	88	9	5	66	49	5	5	66	72	18	7	4	38	30	9	2	11	246	Monywa.
5·4	—0·7	4·8	57·79	—4·08	2·70	IX	96	—4·7	2·0	—0·2	11	9	11	9	31	34	7	2	251	8	6	0	4	64	109	45	43	86	Lashio.
6·3	+0·7	4·3	82·46	+10·45	5·20	IX	99	—1·5	2·5	+1·0	98	67	12	9	24	10	15	30	100	84	65	9	12	33	8	16	28	110	Bhamo.
5·7	—0·1	4·9	84·08	+5·09	4·17	VIII	92	—13·5	2·8	+1·0	94	95	26	30	33	11	5	13	58	42	40	8	19	46	32	17	17	145	Myitkyina.
																														Assam
7·1	+1·4	...	113·22	+4·80	5·27	VIII	126	—8·5	1·8	+1·1	36	79	79	8	13	6	2	13	129	...	...	...	...	...	...	...	...	...	...	Dibrugarh.
8·8	+1·5	5·9	105·11	+9·2	4·27	VI	124	—4·5	2·7	+1·0	36	108	72	12	26	27	6	19	59	59	87	43	11	16	25	11	39	74	Sibsagar.
5·1	+0·1	3·6	71·34	—2·90	2·96	VIII	111	+5·9	2·4	+0·1	12	98	154	14	6	3	26	8	44	11	53	80	7	2	1	21	10	180	Tezpur.
5·5	—0·7	4·4	...	...	...	...	...	...	2·0	+0·7	46	64	43	34	28	10	19	16	105	14	47	32	11	15	21	23	24	178	Gauhati.
4·4	—0·2	3·8	101·72	+5·22	5·35	IX	95	+0·7	3·9	—0·1	25	138	80	15	28	19	4	5	51	21	65	24	15	30	30	15	9	156	Dhubri.
5·4	+0·3	4·2	133·89	+9·21	6·04	VII	139	+2·9	1·2	—0·3	6	40	88	23	3	3	6	4	192	11	18	8	4	3	38	36	9	238	Silchar.
5·0	+1·4	4·9	95·77	—2·76	5·41	V	105	—18·7	2·9	...	7	39	45	79	85	27	13	10	60	11	28	21	50	96	29	46	26	88	Srimangal.
																														Bengal
5·5	+1·3	5·4	108·51	—32·13	9·96	VI	84	—23·0	3·1	+0·2	3	19	14	96	33	15	1	2	182	13	3	0	29	83	51	13	32	147	Cox's Bazar.
4·7	0	4·5	91·41	—11·32	6·40	VIII	92	—3·0	5·2	...	33	83	51	95	87	8	3	5	0	44	12	1	13	66	105	60	64	0	Chittagong.
4·8	+1·0	4·7	69·08	—51·83	4·43	VII	90	—23·0	...	...	62	20	12	85	59	28	11	31	57	28	3	4	33	100	73	17	53	54	Noakhali.
4·9	+1·0	5·7	67·39	—22·92	3·98	VI	85	—15·2	...	...	25	32	45	91	62	21	5	11	73	10	8	9	59	74	39	14	7	145	Comilla.
4·7	—0·5	4·5	72·83	—0·99	6·51	VIII	79	—14·3	3·7	+0·5	18	19	39	61	79	44	30	59	16	4	5	16	48	105	35	43	60	49	Narayanganj.
4·8	—0·4	4·1	71·30	—21·85	3·99	VIII	91	—14·4	2·3	+0·7	5	31	51	127	2	2	5	14	128	3	5	23	118	5	2	14	14	181	Mymensingh.
4·9	+1·1	4·9	54·78	—16·99	4·35	VIII	73	—20·3	4·4	...	13	11	9	122	74	8	10	29	89	14	9	5	107	57	1	10	23	139	Faridpur.
4·2	—0·4	3·9	64·91	—17·40	4·45	VII	88	—15·2	3·5	+1·6	27	16	23	57	73	58	17	63	31	17	8	22	63	84	43	12	40	76	Barisal.
5·3	+0·6	5·1	49 21	—16·85	3·17	IV	80	—17·0	3·1	...	24	20	26	44	56	45	24	20	106	3	4	12	62	64	20	4	3	193	Khulna.
3·7	—0·8	3·1	48·61	—17·42	2·12	VII	74	—14·0	3·0	+1·0	21	22	4	45	103	34	1	18	117	2	4	8	34	70	21	2	3	221	Jessore.
4·2	+0·7	4·1	48·10	—14·39	4·78	VIII	69	—26·5	2·6	...	43	37	36	15	67	63	24	21	59	8	17	22	18	78	46	10	4	162	Satkhira.
4·5	0	4·7	35·79	—26·75	3·84	VIII	66	—19·2	2·8	—0·4	42	15	23	30	43	85	14	26	87	43	5	9	28	73	72	22	43	70	Calcutta.
5·6	+0·3	5·9	57·20	—12·21	4·90	VI	68	—11·6	10·5	+1·9	73	53	18	12	84	74	19	27	5	49	28	10	25	176	54	13	7	3	Sauger Island.
4·1	—0·5	3·8	32·93	—6·96	4·36	X	43	—12·7	...	...	57	33	8	9	47	127	38	17	29	38	20	5	22	63	119	27	21	50	Sandheads.
4·7	+1 6	4·9	49·24	—9·81	2·83	VII	68	—12·3	2·0	—0·4	43	29	11	16	81	20	1	12	146	25	21	8	34	95	13	4	10	155	Midnapore.
3·5	—1·2	3·8	36·79	—21·84	2·92	VI	72	—4·9	2·0	...	30	2	6	60	50	20	8	64	125	12	1	3	64	36	9	11	38	191	Burdwan.
4·7	+0·5	5·2	40·88	—17·52	3·92	VIII	66	—12·2	3·0	...	16	20	38	36	59	54	17	23	102	3	8	14	40	46	34	8	8	204	Krishnagar.
4·1	+0·1	4·7	47·96	—10·04	7·45	VIII	61	—13·7	3·9	...	17	11	27	33	35	49	82	61	50	34	22	38	34	14	21	86	81	35	Asansol.
4·3	—0·4	4·1	37·78	—19·33	2·59	VIII	60	—17·2	2·7	+0·4	12	18	50	44	70	41	8	47	75	16	16	41	48	40	22	4	14	164	Berhampore.
4·7	+0·6	4·1	44·21	—26·73	3·62	VIII	66	—19·3	2·2	+0·6	30	35	76	71	24	38	22	16	53	4	7	53	48	18	31	65	18	121	Bogra.
4·1	+1·1	3·4	45·73	—10·37	3·36	IX	61	—7·9	3·8	...	41	20	60	47	65	32	23	39	38	31	16	56	45	22	4	36	89	65	Malda.
4·2	0	3·4	37·77	+16·67	5·31	VIII	67	—12·5	2·0	—0·4	7	89	73	38	14	20	19	22	83	2	40	41	21	13	27	34	28	159	Dinajpur.
4·1	+0·8	3·4	130·96	+8·64	7·05	IX	108	+4·8	3·0	+1·6	69	84	125	23	4	3	7	14	36	17	32	69	31	19	7	35	9	146	Jalpaiguri.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity, %.		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Orissa																						
Balasore	65	29·722	—·007	29·623	89·4	+0·8	108	IV	70·8	+0·3	46	I	76·8	82·0	71·7	74·8	·732	—·013	·780	77	—4	70
Chandbali	20	29·775	—·007	29·680	90·1	+1·4	111	V	71·1	—0·1	48	I	76·2	83·1	72·3	74·1	·768	...	·735	82	0	65
Puri	20	29·776	+·001	29·687	85·8	—0·5	94	X	75·1	+0·5	56	I	78·6	82·0	74·1	75·9	·796	—·025	·827	80	—3	75
Cuttack	87	29·712	+·002	29·607	92·5	+1·6	113	V	71·6	—0·9	50	I	76·5	83·4	72·1	73·9	·743	—·007	·693	79	0	57
Angul	455	29·331	—·004	29·219	91·3	+1·4	115	VI	69·7	+0·2	47	XII	74·8	87·1	69·2	70·7	·667	—·026	·548	74	—2	45
Sambalpur	486	29·298	—·013	29·182	92·1	+1·6	116	V, VI	69·0	—0·8	42	XII	75·7	88·3	69·0	72·1	·684	—·020	·583	71	0	46
Chota Nagpur																						
Jamshedpur	423	29·246	...	...	91·6	...	116	VI	67·9	...	41	I	74·1	...	67·9	...	·629	...	...	72	...	...
Chaibasa	742	29·037	+·003	28·921	90·5	+0·6	115	VI	68·1	—0·2	44	I, XII	74·3	86·5	68·1	72·1	·681	—·020	·613	73	—3	51
Ranchi	2,152	27·632	—·003	27·553	85·3	+1·1	108	V, VI	63·9	—1·6	39	I	72·9	80·0	63·0	65·2	·471	—·058	·448	57	—9	46
Hazaribagh	2,006	27·777	+·005	27·699	85·6	+1·6	109	V, VI	63·9	—1·8	37	I	73·1	79·3	63·0	64·5	·470	—·042	·437	57	—6	46
Daltongani	725	29·050	—·007	28·941	89·3	—0·2	113	V, VI	65·5	+0·2	39	I	72·2	86·3	64·4	67·9	·530	—·057	·457	68	—5	39
Bihar																						
Purnea	124	29·655	—·025	29·546	88·3	+1·8	109	V	65·3	—1·0	39	I	72·4	82·7	67·7	71·3	·653	—·037	·608	79	—6	58
Darbhanga	162	29·617	—·014	29·511	87·1	+1·1	107	V, VI	66·5	—1·3	42	I, XII	74·7	82·8	68·5	70·9	·639	—·043	·623	71	—9	56
Pusa	107	29·619	+·003	...	87·7	—0·2	112	VI	66·4	—0·7	42	XII	73·1	..	67·9	...	·653	—·024	...	77	—3	...
Motihari	220	29·560	—·013	29·460	88·0	+1·5	110	VI	65·7	+0·7	40	XII	72·8	83·8	67·2	71·3	·625	—·052	·622	74	—9	55
Patna	173	29·605	—·003	29·500	89·2	+1·9	113	VI	68·4	—0·2	43	I	74·9	85·2	67·8	70·9	·620	—·036	·584	69	—3	50
Gaya	372	29·400	—·013	29·294	92·2	+2·5	115	VI	69·9	+1·0	44	I	77·9	87·6	67·3	70·3	·560	—·075	·532	57	—13	43
Naya Dumka	489	29·289	—·009	29·182	89·6	+1·9	113	VI	67·5	—0·3	41	XII	75·2	83·1	67·8	69·0	·613	—·035	·535	68	—5	49
Sabour	122	29·657	...	29·553	88·0	...	109	VI	65·6	...	38	I	73·3	82·9	67·7	70·9	·635	...	·619	75	...	56
United Provinces, East																						
Gorakhpur	257	29·525	—·001	29·427	89·5	+1·8	115	VI	66·4	—0·3	40	I	72·9	84·6	66·7	70·9	·610	—·030	·593	73	—2	52
Benares	250	29·519	—·015	29·423	90·9	+1·4	114	V, VI	66·8	+0·2	37	I	75·1	86·7	65·7	68·7	·542	—·079	·484	61	—10	41
Allahabad	309	29·463	—·011	29·363	90·7	+0·6	116	V	66·5	—0·3	36	I	74·4	87·3	64·8	69·0	·526	—·050	·487	61	—4	41
Fatehpur	375	29·402	...	29·296	90·7	...	115	V	65·5	...	34	I	76·0	86·3	67·3	71·6	·586	...	·602	63	...	49
Cawnpore	416	29·369	+·005	29·261	91·2	+1·3	116	V	...	...	...	...	78·4	87·3	64·5	68·9	·526	—·043	·482	63	—3	40
Lucknow	371	29·405	—·005	29·296	91·5	+1·8	116	VI	65·8	+0·1	36	I	73·6	86·5	65·5	69·3	·561	—·021	·509	66	—2	41
Bahraich	407	..	..	29·263	88·8	+0·7	114	VI	...	...	36	I	71·9	85·0	65·2	69·8	·571	—·047	·552	70	—3	47
Gonda	360	29·417	...	29·317	89·7	...	115	VI	64·9	...	37	I	72·7	84·5	65·2	69·0	·559	...	·523	68	...	47
United Provinces, West																						
Jhansi	824	28·980	+·007	28·877	90·7	—0·5	116	V	60·4	—2·6	35	I	70·1	87·1	64·2	67·5	·473	—·056	·439	51	—7	35
Agra	554	29·222	—·009	29·131	90·2	—0·9	117	V	63·5	—0·3	28	I	74·1	86·4	63·2	66·7	·473	—·030	·414	55	—4	33
Mainpuri	516	29·251	—·009	29·159	91·2	+1·1	117	V	64·7	—0·9	32	I	74·2	86·4	64·4	69·2	·517	—·027	·506	59	—6	41
Aligarh	615	29·160	...	29·069	88·6	...	114	V	65·1	...	33	I	72·7	85·6	62·7	66·8	·463	...	·430	57	...	35
Bareilly	568	29·215	+·012	29·125	88·2	+0·7	115	V	64·9	+0·2	36	I	72·1	84·7	64·9	69·9	·557	—·027	·557	69	—4	48
Roorkee	899	28·872	—·003	28·786	86·0	—0·4	112	V	61·3	—0·9	30	I	69·7	82·8	61·6	65·6	·481	—·038	·431	65	—6	39
Dehra Dun	2,239	27·539	—·010	...	82·9	+0·8	108	V	58·9	—1·8	31	I	64·8	...	58·7	...	·450	—·022	...	69	—1	...
Punjab, East and North																						
*New Delhi	719	29·063	...	28·973	88·1	...	113	V, VI	64·8	...	31	I	71·5	85·6	63·3	68·7	·513	...	·505	63	...	40
Hansi	711	29·063	...	...	90·5	...	116	V, VI	62·0	...	29	I	71·1	...	62·2	...	·481	...	...	63	..	...
Hissar	725	29·052	+·001	28·961	90·4	—0·5	116	VI	62·6	—1·1	25	I	72·9	85·6	63·4	68·3	·497	+·023	·495	59	0	39
Ambala	892	28·864	—·012	28·790	88·3	+0·4	115	V, VI	63·3	+0·6	32	I	69·6	83·5	60·9	65·3	·464	—·061	·413	62	—8	37
Ludhiana	812	28·964	+·005	28·895	88·5	+0·7	115	V, VI	62·0	—2·0	29	I	70·4	84·9	61·6	66·1	·473	—·026	·417	63	—2	35
Lahore	702	29·071	+·004	29·002	87·5	—2·1	116	VI	61·7	+1·1	28	I	70·1	84·9	62·3	67·1	·504	+·016	·462	67	+5	38
Sialkot	830	28·937	—·005	28·869	85·8	—1·3	115	VI	61·5	—0·9	31	I	68·5	81·9	60·7	66·2	·467	—·048	·467	66	—4	44
Rawalpindi	1,674	28·110	—·004	28·043	82·5	—1·6	114	VI	58·1	+0·4	29	I, XII	66·2	79·4	57·0	61·9	·390	—·058	·367	60	—5	37

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1935.

Cloud amount (tenths of sky.)			Rainfall, inches.				Number of rainy days. (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																	STATION.
											8 hrs. L. M. T.									17 hrs. I. S. T.									
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	In the Total year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Orissa *
5·2	+1·6	5·7	44·87	—17·86	3·70	VII	63	—15·0	4·7	+1·8	81	42	10	10	69	93	10	55	5	9	13	11	108	111	34	5	3	71	Balasore.
4·8	...	4·4	55·83	—5·15	9·90	VII	66	—5·6	5·7	...	68	8	6	12	74	67	62	53	20	7	17	56	123	93	18	15	6	30	Chandbali.
4·4	+0·3	4·1	48·27	—6·29	3·99	IX	53	—8·7	10·9	+2·5	97	52	3	6	56	92	38	12	15	16	10	27	56	132	96	17	6	5	Puri.
4·6	+0·1	5·2	46·67	—12·60	5·28	VII	59	—15·9	2·8	+0·8	16	17	14	5	17	90	77	25	104	4	5	10	25	55	82	35	8	141	Cuttack.
4·2	+0·1	4·9	40·02	—7·81	3·31	VII	60	—12·3	4·0	—0·1	20	32	27	20	25	18	105	112	11	59	43	26	43	58	18	48	55	15	Angul.
4·1	0	4·6	61·85	—3·88	9·36	VII	65	—8·9	2·8	—0·1	53	62	30	19	27	64	24	14	72	27	22	13	5	24	82	50	58	84	Sambalpur.
																													Chota Nagpur
4·0	...	...	48·92	...	4·27	VIII	65	...	2·5	...	2	3	29	13	5	29	88	45	151	...	...	...	...	...	...	...	...	...	Jamshedpur.
4·5	+0·8	5·5	39·32	—12·47	2·86	VIII	67	—7·4	1·9	+0·3	8	28	10	4	8	123	64	17	103	24	4½	21	9	16	44	48	28	131	Chaibasa.
3·9	0	4·6	38·53	—18·68	2·56	VIII	70	—10·2	...	..	23	9	7	13	39	36	13	37	188	45	15	15	16	24	19	26	71	164	Ranchi.
4·3	0	4·9	52·82	—0·46	7·61	VIII	63	—12·2	5·7	+0·4	23	15	19	22	45	71	62	78	30	73	14	29	28	23	16	25	158	8	Hazaribagh.
3·6	+0·8	4·3	54·25	+9·60	5·27	VII	62	+0·5	3·1	+0·4	16	9	74	26	14	25	39	8	154	52	17	33	4	10	9	135	63	42	Daltongunj.
																													Bihar
3·9	+0·2	2·6	54·01	—8·27	4·60	IX	59	—11·8	...	...	3	45	82	15	4	44	44	6	118	6	29	54	12	4	13	69	10	168	Purnea.
3·7	+0·5	3·2	53·16	+2·89	6·58	IX	47	—12·0	1·1	—1·6	1	1	96	0	0	1	21	5	240	0	0	39	0	1	1	24	0	300	Darbhanga.
3·7	+0·2	...	41·20	—5·94	5·08	IX	51	—6·1	...	...	7	36	111	9	6	38	76	6	74	...	...	...	...	...	...	...	...	...	Pusa.
3·5	+0·7	3·1	58·51	+3·65	10·03	VII	41	—17·9	...	...	32	38	111	34	13	18	54	21	44	13	28	82	20	13	13	98	23	95	Motihari.
3·8	+0·2	3·4	36·81	—11·72	5·45	VII	45	—11·0	4·2	+1·1	18	66	50	25	15	97	63	12	19	32	81	19	15	2	9	75	88	44	Patna.
2·8	—0·4	2·9	44·49	—2·99	5·03	VIII	44	—14·0	3·7	+1·1	16	28	35	78	48	88	48	25	9	44	51	31	25	13	42	48	106	5	Gaya.
3·2	0	3·7	58·11	+1·02	10·51	IX	64	—13·9	2·4	+0·7	2	5	23	40	19	24	11	45	196	0	14	16	29	6	13	12	60	209	Naya Dumka
3·9	...	3·4	39·06	—8·88	4·11	IX	56	—5·0	4·8	...	9	44	45	53	50	93	35	15	21	60	38	54	20	10	7	38	99	39	Sabour.
																													United Provinces, East
3·4	+0·8	3·2	50·57	+0·38	7·44	IX	41	—15·6	2·9	...	1	19	109	21	3	11	61	15	125	1	5	58	6	1	2	85	10	197	Gorakhpur.
3·2	—0·1	3·5	34·76	—5·79	3·63	VIII	46	—6·7	5·1	+2·6	11	35	35	21	22	116	77	9	39	31	48	13	12	3	30	107	100	21	Benares.
3·7	+0·1	3·6	41·39	+2·33	3·78	VI	52	+3·0	5·6	+2·4	6	16	48	25	13	37	130	37	55	44	30	36	3	12	9	84	105	42	Allahabad.
2·9	...	3·2	27·23	...	3·94	VII	43	...	2·6	...	5	28	25	35	9	43	64	56	100	17	28	12	12	6	10	26	102	162	Fatehpur.
1·9	—0·8	2·0	24·23	—11·69	3·65	VII	43	—1·5	3·1	+0·7	29	22	28	28	19	40	105	41	53	74	20	24	15	9	10	82	110	20	Cawnpore.
3·0	—0·1	2·9	22·22	—16·35	1·61	VII	48	—0·8	1·9	0	14	5	69	4	6	26	82	17	142	9	15	43	9	1	34	78	61	115	Lucknow.
1·5	—0·9	1·5	36·67	—8·63	2·62	VIII	47	—2·7	3·3	+1·2	6	17	74	67	1	34	54	39	73	8	8	21	45	12	27	96	45	103	Bahraich.
3·1	...	3·1	43·44	...	5·60	VIII	52	...	3·4	...	25	25	98	32	11	15	80	65	14	15	12	42	29	8	10	103	89	92	Gonda.
																													United Provinces, West
2·6	+0·3	3·2	42·99	+6·82	6·80	VII	50	+3·4	3·9	+0·9	11	27	16	4	5	58	74	27	143	24	43	15	7	2	30	79	46	119	Jhansi.
3·1	+0·4	3·7	23·83	—3·07	3·67	VII	33	—5·0	4·0	+0·7	22	20	24	20	8	57	144	50	20	44	28	21	9	10	28	95	118	12	Agra.
3·3	+0·4	3·9	29·18	+2·11	3·94	VIII	39	+0·4	2·8	+1·2	26	16	37	24	14	22	102	69	55	21	21	23	13	3	16	119	78	71	Mainpuri.
2·5	...	2·7	30·96	...	3·15	IX	46	...	4·3	...	50	17	13	28	14	24	79	82	58	65	26	20	8	9	13	54	129	41	Aligarh.
3·1	0	3·3	37·36	—6·31	2·47	VII	53	+6·7	...	...	28	13	67	24	2	28	61	47	95	17	11	28	11	3	19	115	64	97	Bareilly.
3·5	+0·7	3·6	20·14	—21·84	2·03	IX	39	—8·7	3·5	+1·6	6	17	3	119	7	7	0	100	106	0	7	1	53	8	22	2	236	86	Roorkee.
3·9	0	...	75·23	—7·93	7·92	VIII	83	+2·7	1·7	+0·6	32	43	7	33	9	27	41	25	148	...	...	...	...	...	...	...	...	...	Dehra Dun.
																													Punjab, East and North
3·0	+0·1	3·4	28·10	+1·26	4·33	IX	44	+8·0	3·1	+0·4	11	12	15	21	12	78	84	24	108	39	17	19	21	9	25	68	104	65	*New Delhi.
2·7	...	...	26·20	...	3·52	VII	32	...	1·3	...	10	19	19	19	8	33	65	25	167	...	...	...	...	...	...	...	...	...	Hansi.
2·5	+0·3	3·0	20·47	+2·80	4·00	VII	34	+8·2	4·3	+0·1	29	13	32	32	32	81	70	21	55	75	18	32	21	12	27	59	70	51	Hissar.
3·7	+0·8	3·8	36·16	+5·67	4·04	VIII	47	+4·6	3·2	+0·8	26	0	55	63	1	1	19	107	93	11	0	18	45	2	1	35	204	49	Ambala.
3·6	+0·9	3·7	26·40	—2·31	3·57	VIII	34	—2·3	2·5	+1·2	18	21	30	33	38	13	59	48	105	11	19	20	19	19	9	122	104	42	Ludhiana.
3·4	+0·8	3·1	16·54	—8·08	2·94	I	27	—1·1	1·3	—0·4	21	23	19	31	10	5	7	46	203	16	12	9	20	8	1	7	52	240	Lahore.
2·5	+0·1	2·5	36·28	+5·26	3·60	VIII	43	+2·5	2·6	+1·1	48	62	39	35	10	7	6	70	88	17	21	13	20	16	24	19	106	135	Sialkot.
3·5	+0·3	3·6	42·00	+7·23	3·31	VIII	50	+1·8	2·9	+1·2	16	40	2	22	7	21	10	24	223	8	25	9	26	15	92	32	77	90	Rawalpindi.

* Same as "Delhi" in India Weather Review for 1932 to 1934.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity, %		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Punjab, Southwest																						
*Khushab	612	29·171	0	29·084	88·0	—1·5	117	VI	63·4	—0·3	31	I	69·6	86·3	59·8	66·7	·426	—·029	·424	57	+2	35
Lyallpur	605	29·165	+·004	29·092	88·0	—0·6	115	VI	62·6	+0·5	29	I	71·7	84·9	61·5	65·8	·452	—·030	·403	57	—6	35
Montgomery	558	29·212	—·001	29·135	88·8	—2·3	116	VI	63·6	—0·6	29	I	70·4	86·6	62·8	70·4	·517	+·032	·563	67	+8	43
Multan	413	29·359	0	29·277	...	...	117	VI	64.9	+0·3	32	I	72·5	87·7	63·3	63·8	·498	—·071	·476	61	—8	37
Bahawalpur	384	29·389	...	...	90·5	...	115	VI	63·7	...	27	I	72·8	...	63·1	...	·495	...	...	58	...	...
Khanpur	297	29·483	...	29·389	...	...	117	VI	63·2	...	29	I	72·2	90·7	61·9	67·1	·456	...	·371	55	...	25
Kashmir																						
Srinagar	5,205	...	...	...	66·5	—1·2	95	VII	44·1	+0·4	19	I	49·8	62·1	46·9	52·5	·318	—·025	·319	88	—4	57
†Gulmarg	8,569	...	...	....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Muzaffarabad	2,343	27·457	+·009	...	79·0	—0·8	111	VI	...	...	...	...	61·1	...	55·3	...	·390	—·012	...	71	+3	...
Drass	10,059	20·780	+·009	...	44·5	—4·9	83	VIII	21·3	+0·3	—26	I	28·6	...	25·2	...	·146	—·023	...	74	—2	...
Leh	11,503	19·676	+·003	...	54·5	—0·9	86	VII	29·9	+0·3	—8	I	37·6	...	31·2	...	·142	+·010	...	59	+8	...
Skardu	7,505	...	...	...	61·4	—1·2	97	VIII	41·4	+0·9	14	I	46·9	...	40·9	...	·221	+·003	...	66	0	...
Gilgit	4,890	...	...	...	68·7	—4·3	101	VIII	52·0	—0·3	24	I	55·5	...	47·7	...	·274	—·005	...	57	+5	...
N. W. F. Province																						
Peshawar	1,164	28·632	—011	28·554	83·3	—1·4	116	VI	59·2	—1·1	29	I	57·7	80·3	58·7	63·5	·421	—·033	·402	59	+7	38
Miranshsh	...	26·820	...	...	78·5	...	111	VII	57·3	...	24	I	66·7	...	54·3	...	·312	...	...	43	...	...
D. I. Khan	570	29·221	+·019	29·135	89·1	—0·6	120	VI	62·1	—0·5	32	I	72·3	86·4	61·7	67·4	·453	—·069	·454	54	—11	34
††Baluchistan																						
Fort Sandeman	4,614	25·341	—·004	25·274	77·1	—3·4	106	VI	53·2	—0·2	19	I	56·5	74·6	48·2	55·4	·279	—·014	·248	55	+1	27
Sibi	441	29·332	...	...	92·7	...	123	VI	67·1	...	28	I	76·7	...	61·9	...	·393	...	...	43	...	...
†Quetta																						
Chaman	4,311	25·618	+·003	25·577	76·3	—1·9	104	VII, VIII	54·3	—0·2	17	I	60·5	74·8	48·9	55·6	·234	—·006	·244	45	0	30
†Kalat																						
Dalbandin	2,780	27·029	—·011	26·958	85·7	—1·9	113	VII	53·3	—1·3	20	I	60·9	84·2	51·3	64·3	·288	+·052	·406	52	+8	31
Nokkundi	2,282	...	...	...	87·9	...	115	VII	61·3	...	19	I	67·3	86·7	54·4	65·5	·296	...	402	43	...	29
Las Bela	292	...	...	...	94·3	...	117	VI	64·2	...	23	I	74·8	91·3	68·5	75·3	·652	...	694	70	...	45
Sind																						
Jacobabad	186	...	...	...	...	...	119	VI	...	...	...	...	74·8	92·3	64·4	70·3	·509	—·031	·472	56	—2	31
Sukkur	221	29·567	...	...	91·9	...	117	VI	67·9	...	33	I	72·9	...	64·3	...	·524	...	...	60	...	...
Naushahro	140	29·633	...	29·538	...	...	121	VI	65·0	...	24	I	74·0	94·1	64·1	69·6	·504	...	·416	57	...	26
Chhor	19	29·785	...	29·682	...	...	117	V	...	...	...	...	74·2	92·5	68·2	77·4	·664	...	·767	71	...	48
Hyderabad	96	29·710	+·015	29·619	93·7	+0·4	118	V	68·3	+0·1	34	I	75·4	91·1	65·4	68·8	·523	—·022	·427	56	—4	28
Drigh Road (Karachi)	77	29·738	...	29·653	88·1	...	113	V	67·9	...	34	I	74·5	84·6	67·4	71·6	·610	...	·623	67	...	50
Manora (Karachi)	13	29·795	—·012	29·724	83·3	—0·9	97	IV	71·3	—0·1	43	I	75·0	81·3	70·5	74·2	·708	+·023	·604	78	+4	70
Badin	36	29·762	...	...	...	...	112	VI	66·9	...	29	I	74·4	...	66·8	...	·592	...	...	65	...	...
Rajputana, West																						
Bikaner	762	29·027	+·020	28·932	91·5	—0·6	115	V, VI	66·9	—2·0	30	I	73·1	89·7	60·7	65·6	·403	—·089	·338	46	—7	23
Jodhpur	780	29·017	—·001	28·912	92·2	—0·2	115	V	67·9	+0·1	30	I	74·1	90·5	62·7	67·2	·451	+·007	·375	49	+1	26
Barmer	638	29·148	...	29·048	91·9	...	116	V	67·7	...	29	I	74·6	89·7	65·1	70·5	·529	...	·515	57	...	36
Rajputana, East																						
Jaipur	1,481	28·371	—·001	28·284	88·8	—1·3	113	V	63·7	—0·7	31	I	74·8	85·1	62·8	65·4	·447	—·026	·400	51	—2	34
Ajmer	1,593	28·196	—·022	28·113	86·7	—1·8	109	V	63·3	—1·9	27	I	71·7	83·6	61·9	65·0	·460	—·033	·409	57	—5	35
Kotah	843	28·944	—·017	28·846	90·9	—1·2	116	V	67·6	—2·4	36	I	75·8	87·7	64·6	68·8	·487	+·012	·472	54	+4	37
Jhalrapatan	1,053	28·742	...	28·638	89·9	...	115	V	64·7	...	31	I	73·5	86·5	65·2	...	·551	...	...	63	...	...

*Time of morning observations was 0800 (I. S. T.) instead of 0800 (L. M. T.) up to 3-9-35. Pressure data upto 3-9-35 have been reduced to 0800 (L. M. T.) values.
† Data not available for complete year, hence no annual means.
†† Stations in Baluchistan excluding Sibi and Las Bela record observations at 7 hrs. (L. M. T.)

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1935.

Cloud amount, (tenths of sky)			Rainfall, inches.				Number of rainy days, (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																				STATION.
											8 hrs. L. M. T.										17 hrs. I. S. T.										
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	+ 53
																														Punjab, South-west
3·4	+1·1	3·9	13·10	—1·79	3·10	VII	22	—1·9	5·5	+1·6	25	98	70	23	32	42	25	14	36	18	54	73	82	49	34	33	20	2	*Khushab.
2·9	—0·6	3·4	10·83	—2·35	1·09	VII	23	+1·5	2·5	+0·4	21	34	42	43	31	57	16	33	88	17	27	19	27	28	54	17	83	93	*Lyallpur.
0·9	—1·2	1·3	10·31	—0·25	1·73	VII	18	—0·1	2·4	—1·9	18	14	22	27	20	8	31	10	215	24	12	26	15	16	17	51	16	188	Montgomery.
2·3	+0·6	2·5	4·72	—2·48	0·56	II	13	+0·2	2·9	+1·5	86	16	15	12	89	52	5	33	57	78	21	24	19	78	57	6	24	58	Multan.
1·7	...	...	3·98	—1·87	0·56	VIII	10	+0·7	3·0	...	24	59	34	33	29	88	25	10	63	...	...	...	...	...	...	...	...	...	Bahawalpur.
1·4	...	1·6	8·50	+1·85	1·69	VII	18	+8·7	5·1	...	73	50	20	9	29	129	11	11	33	58	48	10	4	10	111	51	36	37	Khanpur.
																														Kashmir
5·8	+1·2	5·7	31·03	+5·16	1·49	III	69	+10·4	2·8	+0·4	13	19	13	101	33	16	15	52	103	30	32	6	21	20	29	45	81	101	Srinagar.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	†Gulmarg.
...	...	...	48·10	—4·08	3·42	IV	74	—4·0	2·3	+0·9	5	11	0	6	74	72	0	0	197	...	...	...	...	...	...	...	...	...	Muzaffarabad.
4·0	0	...	35·16	+13·64	2·20	II	63	+7·9	3·1	+0·5	1	2	1	3	10	29	9	1	309	...	...	...	...	...	...	...	...	...	Dras.
4·1	—0·6	...	2·23	—0·95	0·28	VI	8	—1·6	2·8	+1·1	27	24	12	11	96	36	28	0	131	...	...	...	...	...	...	...	...	...	Leh.
5·3	+0·8	...	5·13	—1·63	0·48	V	17	—1·4	5·1	+1·5	0	31	62	9	6	34	74	22	127	...	...	...	...	...	...	...	...	...	Skardu.
5·2	+0·6	...	4·25	—0·56	0·36	X	14	—1·2	0·4	—0·8	0	0	0	0	0	14	15	2	334	...	...	...	...	...	...	...	...	...	Gilgit.
																														N.-W. F. Province
4·1	+0·3	5·3	18·53	+5·02	1·98	VIII	34	+8·1	2·7	+0·8	41	27	32	30	46	29	17	33	110	76	79	31	27	23	23	14	34	56	Peshawar.
2·7	...	...	13·72	...	1·67	IV	34	...	4·7	...	35	52	55	48	19	60	41	43	12	...	...	...	...	...	...	...	...	...	Mianshah.
2·5	+0·4	2·9	12·83	+3·74	4·00	VIII	21	+4·7	2·6	+1·3	63	85	48	24	13	23	34	51	24	28	66	42	75	57	23	13	22	39	D. I. Khan
																														††Baluchistan.
2·7	+0·8	4·8	12·41	+1·46	0·90	I	33	+8·3	2·5	+0·3	1	1	1	0	4	1	4	1	352	6	4	18	5	12	6	39	8	267	Fort Sandeman.
2·2	...	...	4·68	...	1·10	II	11	...	3·7	...	24	9	14	8	43	8	14	14	229	...	...	...	...	...	...	...	...	...	Sibi.
																													†Quetta.
2·3	+0·2	2·9	11·08	+3·86	1·30	IV	28	+8·6	...	...	1	3	53	83	34	39	6	3	143	21	9	1	9	22	75	94	90	44	Chaman.
																													†Kalat.
1·9	0	2·6	3·98	+0·26	0·64	I	13	+3·8	4·9	+0·8	33	55	24	21	14	34	24	14	146	11	39	37	37	67	86	31	22	35	Dalbandin.
2·2	...	2·6	2·48	...	0·35	I,II	8	...	6·8	...	102	60	43	16	12	3	0	62	67	109	7	18	49	32	17	13	97	23	Nokkundi.
2·8	...	2·1	7·00	...	1·49	II	20	...	2·7	...	49	11	10	8	24	22	5	54	182	10	3	10	32	156	74	4	15	58	Las Bela.
																													Sind
0·7	—1·0	0·7	5·33	+1·65	1·26	VIII	12	+4·5	3·8	+1·3	7	32	35	148	13	20	4	44	62	12	22	12	167	19	40	8	60	25	Jacobabad.
1·3	...	...	3·73	...	1·01	II	8	...	3·2	...	31	22	48	128	22	24	5	6	79	...	...	...	...	...	...	...	...	...	Sukkur.
0·8	...	1·3	4·83	+0·52	2·30	VIII	8	+0·7	2·2	...	57	33	33	4	61	85	28	44	20	74	44	16	2	57	94	26	46	6	Naushahro.
2·4	...	2·2	4·60	...	0·93	VIII	9	...	7·1	...	34	63	13	15	54	136	18	13	19	34	21	6	4	38	183	52	26	0	Chhor.
1·7	—0·3	1·9	2·98	—4·14	0·81	VII	7	—2·6	6·8	—0·3	63	20	2	4	44	153	17	30	30	62	37	9	11	74	119	16	23	10	Hyderabad.
4·5	...	3·3	5·68	...	1·02	IV	11	...	10·3	...	53	53	11	1	2	49	132	26	38	7	23	8	3	12	175	128	7	2	Drigh Road (Karachi)
4·1	+0·5	3·4	3·55	—4·01	0·71	II	9	—0·3	9·7	+0·8	28	74	29	5	0	66	127	32	4	1	11	10	9	11	195	125	3	0	Manora (Karachi)
3·2	...	...	7·06	...	2·48	IX	10	...	3·6	...	34	33	12	2	14	89	96	23	62	...	...	...	...	...	...	...	...	...	Badin.
																													Rajputana, West
1·6	—0·6	2·3	13·54	+1·75	3·23	VIII	20	+0·5	6·2	+1·7	12	28	41	84	49	94	35	14	8	34	32	18	26	39	87	60	64	5	Bikaner.
3·1	0	3·8	10·89	—2·73	2·14	VII	21	+2·1	5·0	+1·4	23	88	20	3	23	120	24	7	57	34	30	13	3	42	125	43	22	53	*Jodhpur.*
2·9	...	3·1	11·65	...	2·16	VII	18	...	5·0	...	27	9	15	17	35	70	71	66	55	20	28	26	10	47	91	75	42	26	*Barmer.*
																													Rajputana, East
2·5	—0·6	3·3	28·93	+4·72	4·63	VIII	44	+8·3	3·6	—0·7	14	61	47	8	7	23	81	51	73	23	23	18	9	19	67	94	80	32	Jaipur.
3·1	+0·4	3·6	26·59	+5·94	4·07	VII	32	+2·0	4·0	+0·2	11	22	11	16	13	59	85	22	126	22	24	13	14	7	49	132	51	53	Ajmer.
3·7	+1·2	4·5	40·14	+11·91	4·64	VII	45	+9·2	2·6	—0·1	4	14	16	9	1	80	115	59	126	23	22	21	12	8	40	67	78	94	Kotah.
3·2	...	4·1	44·23	...	4·93	I X	49	...	2·4	...	20	14	4	13	10	41	81	16	166	42	43	14	4	7	36	80	48	91	Jhalrapatan.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature. °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity, %.		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Gujarat																						
Deesa	466	29·341	—·011	29·238	94·9	+0·7	115	V	65·7	—1·2	28	I	76·3	91·4	67·0	72·3	·577	+·046	·566	59	+2	38
Bhuj	343	29·475	+·002	29·382	90·3	—0·3	106	VI	67·9	—0·5	35	I	74·6	88·2	66·1	68·0	·556	—·071	·431	62	—5	33
Dwarka	37	29·804	+·002	29·724	83·9	—0·5	99	IV	72·9	0	47	I	77·1	80·8	71·2	72·6	·704	—·033	·705	74	—3	67
Jamnagar	...	...	...	...	88·8	—0·7	105	V	67·5	—0·6	35	I	77·2	...	69·5	...	·644	—·019	...	65	—3	...
Rajkot	432	29·388	—·003	29·282	92·0	—0·9	109	V	66·5	+0·4	31	I	75·0	89·4	66·2	67·9	·555	—·045	·411	60	—5	31
Veraval	19	29·819	+·004	29·724	85·8	+1·0	105	V	71·1	—0·2	41	I	77·1	81·4	69·5	74·7	·643	—·028	·780	67	—4	72
Surat	39	29·787	—·012	29·697	92·4	+0·9	107	V	70·2	+0·3	41	I	75·4	89·1	69·2	74·4	·655	—·020	·662	71	+1	50
Bhavnagar	55	29·792	+·009	...	92·7	—0·9	111	V, VI	68·4	—0·8	38	I	75·7	...	65·7	...	·529	—·084	...	56	—8	...
Ahmadabad	163	29·671	+·002	29·551	93·0	—1·6	109	V	70·6	0	42	I	77·2	90·3	66·8	69·6	·545	—·031	·468	56	—3	34
Dohad	1,009	28·821	...	...	91·0	...	107	V	66·0	...	32	I	71·9	...	64·3	...	·530	...	...	65	...	...
Tankhala	357	29·474	...	...	92·5	...	111	V	67·1	...	31	I	77·4	...	67·7	...	·565	...	...	59	...	...
Baroda	114	29·719	...	29·601	93·1	...	112	V	65·8	...	30	I	74·7	89·7	68·0	...	·629	...	·602	70	...	45
Central India, West																						
Neemuch	1,626	28·184	—·010	28·098	87·6	—1·2	110	V	64·2	—0·3	31	I	73·8	85·0	63·1	66·6	·463	—·032	·419	54	—4	37
Indore	1,823	27·985	—·015	27·895	87·1	—1·1	107	V	63·0	—0·9	30	I	72·1	83·9	62·5	65·1	·457	—·064	·381	58	—4	37
Bhopal	1,643	28·165	...	28·061	88·5	...	111	V	65·0	...	33	I	72·8	85·1	62·8	66·7	·463	...	·417	57	...	38
Guna	1,571	28·229	...	28·137	88·5	...	113	V	62·6	...	31	I	71·6	84·9	62·6	67·2	·481	...	·443	61	...	40
Central India, East																						
Nowgong	750	29·037	+·001	28·934	90·9	+1·6	116	V	64·2	—1·4	29	I	73·9	86·9	64·8	69·4	·529	—·006	·508	68	—2	42
Satna	1,041	28·735	—·001	28·637	90·1	+2·1	115	V	64·9	—1·0	34	I	74·3	85·4	64·9	70·2	·516	—·007	·549	61	—1	49
Umaria	1,500	28·270	...	28·180	88·5	...	113	V	64·0	...	36	I	73·5	83·8	63·6	67·4	·490	...	·474	59	...	44
Berar																						
Akola	925	28·875	—·016	28·753	92·8	—0·9	112	V	67·9	+0·5	40	I	74·8	89·5	64·5	69·3	·485	—·020	·453	56	0	36
Amraoti	1,218	28·582	—·014	...	91·2	—0·9	114	V	69·6	+0·4	46	I	76·1	...	64·1	...	·454	—·064	...	51	—6	...
Central Provinces, West																						
Khandwa	1,044	28·751	—·020	...	92·0	—0·1	111	V	66·1	—1·0	35	I	72·9	...	63·7	...	·495	—·004	...	58	0	...
Hoshangabad	992	28·822	0	...	89·9	—0·4	113	V	67·0	+1·5	38	I	74·1	...	65·1	...	·517	+·014	...	61	+2	...
Saugor	1,808	27·991	0	27·898	86·8	—1·1	112	V	66·2	—0·3	38	I	74·3	82·9	61·9	64·7	·414	—·051	·385	49	—6	37
Jubbulpore	1,289	28·500	+·001	28·396	88·9	...	114	V	63·4	...	37	I	72·4	84·8	63·4	67·5	·486	...	·456	62	...	42
Seoni	2,027	27·781	—·001	...	88·5	+0·9	111	V, VI	64·6	0	41	XII	73·7	...	63·3	...	·460	—·036	...	57	—4	...
Nagpur	1,017	28·781	—·003	28·667	92·1	+0·1	115	V	68·1	—0·7	45	XII	75·7	88·4	65·3	69·8	·504	—·027	·487	58	—1	41
Central Provinces, East																						
Pendra	2,040	27·755	—·007	27·661	85·4	+1·7	110	V	65·1	+1·1	41	I	73·8	80·7	63·2	66·0	·460	—·027	·457	56	—5	47
Raipur	970	28·804	—·016	28·703	91·4	+1·2	117	V	69·2	+0·1	48	XII	76·8	87·5	67·5	71·5	·566	+·002	·565	63	—1	48
Kanker	1,318	28·463	...	28·363	89·3	...	112	V	66·2	...	39	XII	74·1	88·6	66·5	70·4	·563	...	·532	63	...	46
Chanda	634	29·163	—·013	29·045	92·2	—0·8	117	V	68·9	+0·3	42	XII	76·7	88·7	67·2	70·7	·555	—·038	·517	62	—3	43
Jagdalpur	1,813	27·982	—·016	27·886	89·0	+1·4	113	V	65·8	0	41	XII	74·1	88·6	66·2	68·3	·555	—·065	·494	67	—9	47
Konkan																						
Bombay	37	29·809	—·001	29·720	87·0	+0·4	101	III	73·9	+0·8	53	I	77·8	82·6	72·8	74·8	·748	—·020	·761	77	—1	68
Alibag	23	29·827	...	...	85·6	...	101	III	72·1	...	50	I	77·8	...	71·7	...	·711	...	...	73	...	...
Ratnagiri	207	29·631	—·008	...	86·2	—1·0	100	III	73·0	—0·2	54	I	79·5	...	71·6	...	·676	—·041	...	67	—5	...
Marmagao	202	29·642	—·005	...	84·9	...	95	III	74·3	...	64	I	78·3	...	73·5	...	·767	...	...	79	...	...
Karwar	44	29·810	—·004	...	86·2	+0·1	94	XI, XII	72·4	—0·3	62	I	75·7	...	72·6	...	·761	+·006	...	86	+2	...

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1935.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days. (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																
											8 hrs. L. M. T.									17 hrs. I. S. T.								
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	STATION.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Gujarat
3·3	0	3·3	19·09	—5·61	2·00	IX	30	+1·3	6·7	—0·5	26	57	34	12	37	78	44	22	55	32	20	8	15	42	97	76	48	27	Deesa.
2·8	—0·3	2·6	12·31	—2·08	3·20	VII	15	—1·3	6·2	—1·4	12	25	2	8	19	92	99	41	67	50	40	6	2	8	97	101	53	8	Bhuj.
4·4	+1·0	3·7	25·15	+11·63	5·50	VII	15	—1·6	9·9	+0·2	53	56	13	3	9	86	90	48	8	17	20	3	0	1	87	156	81	0	Dwarka.
4·5	+2·3	...	17·79	—2·27	3·50	VII	18	—3·2	...	...	50	32	24	14	27	51	67	67	29	...	...	...	...	...	...	...	...	...	Jamnagar.
4·1	+0·7	4·5	32·08	+5·79	5·14	VII	31	—0·2	8·0	+1·1	32	38	21	6	10	73	101	31	53	65	39	8	6	4	59	121	67	6	Rajkot.
3·9	+0·4	3·3	29·72	+10·92	6·32	VII	30	+4·7	6·0	—1·0	56	52	5	5	5	29	71	53	89	8	5	0	8	20	63	159	87	15	Veraval.
4·9	+1·4	4·0	40·47	—0·50	3·80	VII	42	—4·7	4·4	—0 2	24	42	43	36	42	52	36	22	68	20	19	10	2	58	113	86	41	16	Surat.
3·7	+0·3	...	17·10	—4·10	2·63	VI	31	+1·3	4·9	—0·5	73	3	6	0	2	36	139	79	27	...	...	...	...	...	...	...	...	...	Bhavnagar.
3·4	+0·1	3·5	22·97	—5·36	2·12	VII	39	+4·0	4·1	+0·3	21	57	54	9	9	59	79	57	90	31	27	17	11	27	65	88	73	26	Ahmadabad.
3·9	...	...	21·40	—7·29	2·24	VII	37	—4·6	4·5	...	2	47	5	30	6	97	75	12	91	...	...	...	...	...	...	...	...	...	Dohad.
3·5	...	...	39·46	...	4·77	VII	53	...	4·7	...	6	25	18	8	20	110	50	19	104	...	...	...	...	...	...	...	...	...	Tankhala
3·3	...	3·4	34·26	...	5·18	IX	36	...	3·2	...	46	20	3	11	62	75	38	28	82	59	19	2	13	52	72	65	44	34	Baroda.
																													Central India, West
3·7	+0·8	4·3	29·27	+0·08	4·63	VII	33	—3·2	5·8	—0·3	7	114	10	20	7	79	78	21	29	25	112	11	8	6	86	76	28	18	Neemuch.
3·7	0	4·2	37·05	+3·93	4·45	VII	59	+13·2	4·3	+1·1	12	37	30	37	5	37	114	34	59	24	48	15	20	3	67	111	58	19	Indore.
3·3	...	3·7	38·89	...	2·57	VI	54	...	3·6	...	12	25	18	7	10	18	107	44	124	7	40	25	14	11	29	95	76	67	Bhopal.
2·7	...	3·3	49·19	...	7·47	VII	62	...	...	...	4	36	24	15	22	35	84	18	127	12	32	10	4	14	38	116	42	97	Guna.
																													Central India, East
3·4	—0·3	4·3	37·56	—5·18	4·34	VIII	47	—1·0	2·5	+0·6	14	17	23	13	19	107	85	24	63	58	43	15	6	3	36	47	89	68	Nowgong.
2·9	—0·7	3·6	42·96	—1·81	5·37	VII	61	+6·1	3·8	+0·2	12	10	34	24	39	81	95	35	35	51	28	23	12	12	37	70	109	23	Sutna.
4·2	...	4·7	51·85	...	3·60	VII	70	...	3·0	...	6	9	26	30	13	35	64	24	158	50	23	16	6	7	18	62	74	109	Umaria.
																													Berar
2·8	—1·1	3·3	37·95	+6·60	3·99	VII	41	—4·4	5·5	+1·0	5	18	15	11	0	9	45	126	136	17	17	9	6	5	3	51	117	140	Akola.
4·5	+1·0	...	36·38	+8·33	3·40	VI	53	+5·4	6·6	+2·2	19	63	65	12	12	70	75	36	18	...	...	...	...	...	...	...	...	...	Amraoti.
																													Central Provinces West.
2·9	—0·4	...	31·98	+2·35	3·80	VI	50	+8·6	5·0	...	20	28	17	10	14	48	132	34	62	...	...	...	...	...	...	...	...	...	Khandwa.
4·0	+0·5	...	57·37	+8·54	3·81	IX	61	+5·7	2·7	+0·3	10	56	51	41	12	48	67	10	70	...	...	...	...	...	...	...	...	...	Hoshangabad.
3·8	+0·6	4·2	58·13	+13·23	6·08	VII	61	+5·1	5·1	+1·2	19	35	43	43	21	53	82	48	21	47	43	21	12	6	31	95	86	24	Saugor.
4·0	+0·7	4·5	58·57	+3·46	6·27	VII	66	+2·3	3·1	+1·0	5	21	7	80	40	77	38	9	88	39	71	18	16	17	48	47	26	33	Jubbulpore.
3·8	+0·5	...	42·22	—11·00	2·60	VII	64	—6·2	4·2	+1·2	66	36	10	15	6	50	13	35	134	...	...	...	...	...	...	...	...	...	Seoni.
4·3	+0·6	5·1	44·94	—4·03	3·80	VII	54	—8·8	3·3	—0·6	36	28	39	8	6	24	72	90	62	13	27	64	13	4	41	81	54	65	Nagpur.
																													Central Provinces East.
4·0	+0·7	4·8	48·89	—1·17	4·17	IX	73	—0·5	3·8	+0·3	62	21	9	25	46	31	23	71	77	64	28	12	19	47	40	27	62	66	Pendra.
3·5	—0·2	3·5	46·11	—4·72	3·06	VII	61	—2·3	2·2	—1·9	7	14	5	4	1	12	28	8	286	11	11	2	0	5	15	33	7	281	Raipur.
4·3	...	4·6	49·79	...	3·70	VI	61	...	2·0	...	1	6	4	14	8	49	38	25	220	19	48	14	28	7	74	65	95	20	Kanker.
4·0	+0·3	4·4	47·49	—4·41	3·02	VII	68	+5·5	2·9	+0·1	15	9	30	17	18	43	56	36	141	36	18	19	12	17	41	39	49	134	Chanda.
3·9	—0·2	5·0	45·79	—18·01	2·25	IX	67	—15·4	2·8	...	11	5	5	9	21	47	39	7	221	35	26	8	1	36	50	46	17	151	Jagdalpur.
																													Konkan.
4·5	+0·2	4·0	81·62	+10·99	5·84	VI	75	+2·5	6·6	—3·9	42	106	65	31	16	28	48	29	0	70	2	0	2	6	24	90	171	0	Bombay.
4·6	...	...	84·86	...	7·41	VI	84	...	7·5	...	80	86	32	24	31	55	19	25	63	...	...	...	...	...	...	...	...	...	Alibag.
4·1	+0·2	...	99·31	—0·67	6·15	VII	83	—9·7	7·4	+0·8	64	41	56	47	32	29	43	46	7	...	...	...	...	...	...	...	...	...	Ratnagiri.
4·6	—0·1	...	72·58	...	6·19	VII	84	...	9·0	...	42	87	87	25	23	41	29	27	4	...	...	...	...	...	...	...	...	...	Marmagao.
4·1	+0·2	...	95·65	—24·47	5·20	VII	97	—7·2	3·5	+0·7	73	59	3	16	8	67	4	69	61	...	...	...	...	...	...	...	...	...	Karwar.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity %.		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bombay Deccan																						
Malegaon	1,430	28·402	+·004	28·291	91·7	—0·5	109	V	64·5	—0·8	33	I	75·2	87·8	64·2	68·5	·474	—·038	·447	54	—3	37
Ahmadnagar	2,154	27·693	—·006	...	89·0	—0·6	106	V	64·3	+0·3	43	I	73·3	...	62·6	...	·443	—·061	...	54	—6	...
Poona	1,834	28·008	—·005	27·901	88·9	—0·5	108	V	63·3	—1·4	35	I	71·7	84·7	64·0	67·7	·510	—·011	·467	65	—2	43
Satara	2,320	...	...	...	86·8	...	105	V	66·2	...	48	I	72·8	83·0	63·3	67·2	·464	...	·458	58	...	44
Sholapur	1,570	28·249	—·015	...	92·0	+0·6	109	V	68·6	+0·3	52	XI	75·9	...	65·2	...	·490	—·009	...	55	0	...
Miraj	1,824	28·042	...	...	89·4	...	105	V	66·0	...	49	I	74·1	...	68·0	...	·611	...	...	72	...	...
Bijapur	1,950	27·892	—·003	...	90·2	—0·4	107	V	68·2	+0·4	54	XII	75·2	...	65·4	...	·505	—·061	...	58	—7	...
Belgaum	2,562	27·312	+·007	...	85·6	+1·0	102	V	64·2	+0·1	50	II	71·0	...	64·5	...	·528	—·012	...	70	—1	...
Gadag	2,131	27·724	...	...	88·8	...	103	V	68·0	...	58	I, XII	72·4	...	67·1	...	·596	...	...	75	...	...
Hyderabad, North																						
Aurangabad	1,905	27·947	—·004	...	89·4	—1·2	107	V	66·7	+0·6	42	I	74·5	...	63·3	...	·451	—·034	...	53	—2	...
Nizamabad	1,248	28·561	—·017	...	92·0	0	114	V	69·3	+0·7	46	XII	76·5	...	66·5	...	·524	—·070	...	59	—5	...
Hyderabad, South																						
Gulbarga	1,503	28·331	+·002	...	92·1	—0·7	111	V	69·2	+0·1	54	I, XII	76·3	...	66·1	...	·511	—·055	...	58	—5	...
Raichur	1,311	28·516	—·004	...	91·7	—0·7	111	V	72·3	+0·5	55	XII	78·1	...	69·7	...	·616	+·010	...	64	0	...
Hyderabad	1,709	28·108	—·002	...	90·9	+0·5	112	V	69·7	+0·1	52	XII	75·7	...	67·8	...	·580	—·015	...	67	—2	...
Hanamkonda	877	28·935	—·003	...	92·1	+0·9	115	V	72·3	+1·2	52	XII	77·9	...	70·2	...	·637	+·039	...	69	+8	...
Mysore																						
Chitaldrug	2,405	27·460	+·002	...	88·5	+1·5	102	V	68·3	+0·8	59	I, XII	73·9	...	67·2	...	·578	+·003	...	70	0	...
Balehonnur	...	...	...	...	80·6	...	93	IV	63·7	...	53	I	68·1	...	65·3	...	·593	...	...	86	...	...
Hassan	3,149	26·771	+·008	...	84·9	+1·8	98	IV	64·5	+1·8	54	I	70·3	...	65·2	...	·566	—·012	...	76	—2	...
Bangalore	3,021	26·878	0	26·779	85·4	+0·8	98	IV, V	65·1	+0·8	54	XI	70·6	81·2	65·5	66·7	·567	—·012	·469	76	—2	48
Mysore	2,518	27·368	—·002	...	87·0	+0·7	99	IV	66·8	+0·9	57	XII	72·3	...	67·0	...	·592	—·014	...	74	—2	...
Malabar																						
Mangalore	72	29·779	—·011	...	86·7	—1·0	94	III	74·7	+0·4	68	I, XII	79·1	...	74·4	...	·786	+·001	...	79	+1	...
Calicut	27	29·830	—·005	...	87·4	+1·0	94	V	74·9	+0·4	68	I, XII	79·1	...	74·7	...	·802	—·013	...	81	—3	...
Cochin	9	29·864	+·006	...	85·7	—2·1	91	III, IV, XII	76·0	+1·0	69	VI, XII	80·5	...	75·3	...	·805	0	...	78	—2	...
Trivandrum	200	29·649	—·009	29·556	85·7	+1·4	91	III, V	76·2	+1·1	70	II, XII	79·7	83·5	75·6	77·0	·833	+·042	·839	83	+1	73
Madras, Southeast																						
Pamban	37	29·788	—·015	...	87·0	—0·7	95	IV	78·2	+0·7	72	II	81·8	...	77·4	...	·879	+·014	...	81	+1	...
Madura	463	29·365	—·016	...	94·3	+0·6	108	VI	75·7	+1·5	67	I, II, XI	80·4	...	72·5	...	·692	—·053	...	67	—4	...
Negapatam	31	29·801	—·006	29·700	89·8	—0·6	105	VI	77·3	+1·1	69	I	81·1	84·8	74·9	76·7	·783	—·033	·806	75	—1	69
Trichinopoly	255	29·575	—·019	...	93·0	—1·8	107	V	75·3	+1·0	64	I	80·9	...	73·7	...	·736	—·003	...	70	—2	...
Coimbatore	1,341	28·505	—·007	...	89·1	—0·8	99	IV, V	70·9	+1·2	62	I, XII	77·2	...	70·7	...	·669	—·055	...	72	—9	...
Salem	913	28·923	—·009	...	92·5	—0·5	104	IV, V, VI	72·7	+1·5	60	I, XI	77·7	...	72·0	...	·713	—·028	...	75	—2	...
Cuddalore	39	29·804	+·004	...	89·9	—0·6	109	V	75·6	+0·8	65	I	80·8	...	75·3	...	·805	—·021	...	77	—3	...
Vellore	703	29·128	—·009	...	92·6	+0·7	111	V	73·0	+0·6	59	XI	78·0	...	72·1	...	·711	—·016	...	75	—2	...
Madras	22	29·796	—·018	29·696	90·7	—0·2	109	V	75·4	+0·9	63	I	81·3	84·9	75·0	76·5	·785	—·028	·798	75	—2	67
Madras, Deccan																						
Cuddapah	428	29·404	—·003	...	94·6	—1·0	111	V	75·2	+0·7	61	XII	82·1	...	74·8	...	·764	+·053	...	71	+4	...
Bellary	1,473	28·362	—·002	...	91·7	—1·6	108	V	71·7	+0·8	59	XI	77·8	...	68·6	...	·586	+·010	...	62	+1	...
Kurnool	923	28·896	—·010	...	93·5	—0·3	112	V	72·3	+1·1	56	XII	77·7	...	69·3	...	·609	—·029	...	65	—3	...
Madras Coast, North																						
Nellore	66	29·742	—·017	29·637	93·9	+0·2	113	V	76·1	+0·9	65	I	82·3	88·1	74·5	75·6	·750	—·043	·716	70	—6	56
Masulipatam	10	29·802	—·017	...	89·8	—0·7	114	V	74·8	+0·3	59	XII	80·8	...	75·7	...	·822	—·022	...	78	—3	...
Cocanada	26	29·78	—·015	29·678	90·0	+0·7	116	VI	74·5	—0·5	60	XII	80·4	85·3	74·8	75·9	·793	—·004	·772	76	—2	64
Vizagapatam	126	29·672	—·010	29·580	86·7	—0·3	103	V	75·4	0	61	I, XII	79·6	83·2	74·6	76·9	·798	+·044	·844	78	+5	74
Calingapatam	19	29·784	—·001	...	88·1	—0·4	101	V	74·0	+0·2	55	XII	78·2	...	74·2	...	·799	—·006	...	82	+1	...
Gopalpur	56	29·739	—·001	29·645	86·6	+0·5	94	V, IX, X	73·1	—0·2	54	XII	78·3	82·1	73·4	75·9	·771	—·014	·817	78	—3	74

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1935.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10" or more).		Wind velocity, miles per hour.		Wind direction—Number of winds from																	STATION.
											8 hrs. L. M. T.									17 hrs. I. S. T.									
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Bombay Deccan
3·9	+0·9	4·8	20·45	—1·78	1·80	VII	30	—4·5	...	...	23	12	5	6	11	81	121	63	43	42	41	36	14	15	54	88	58	17	Malegaon.
4·0	—2·8	...	24·43	+2·10	3·02	VIII	37	+0·9	5·4	—1·4	49	15	9	20	15	26	67	111	53	...	...	...	...	...	...	...	...	...	Ahmadnagar.
4·1	+0·6	4·7	23·29	—3·82	2·93	IX	45	—2·4	4·1	...	7	7	8	6	26	28	110	30	143	8	14	23	21	5	16	166	73	39	Poona.
3·8	...	4·0	28·14	...	3·14	X	54	...	2·8	...	5	2	2	1	1	12	107	18	217	13	16	7	4	1	44	200	14	66	Satara.
3·6	—0·4	...	29·43	+0·98	4·63	X	46	+4·7	...	...	69	28	38	42	20	57	53	36	22	...	...	...	...	...	...	...	...	...	Sholapur.
4·9	...	...	21·37	...	1·94	VIII	40	...	6·1	...	12	8	56	14	5	17	89	89	75	...	...	...	...	...	...	...	...	...	Miraj.
3·7	+0·1	...	23·83	+2·93	2·67	VIII	41	+4·97	4·6	—0·7	52	19	38	24	30	24	102	54	22	...	...	...	...	...	...	...	...	...	Bijapur.
3·6	—1·0	...	35·27	—14·86	1·84	X	65	—15·9	5·1	—4·6	23	41	42	22	6	44	93	24	67	...	...	...	...	...	...	...	...	...	Belgaum.
3·7	...	...	21·78	...	2·13	X	40	...	6·9	...	8	21	72	20	8	32	143	36	25	...	...	...	...	...	...	...	...	...	Gadag.
																													Hyderabad, North
4·6	+0·9	...	32·80	+5·27	2·34	VII	44	+0·4	7·1	+0·2	27	31	77	22	6	37	104	22	39	...	...	...	...	...	...	...	...	...	Aurangabad.
4·1	+0·4	...	32·28	—7·80	3·13	VII	54	—1·7	2·1	—1·8	35	54	18	18	20	64	17	13	121	...	...	...	...	...	...	...	...	...	Nizamabad.
																													Hyderabad, South
4·6	+1·3	...	34·55	+3·47	2·55	VIII	54	+5·7	6·9	+0·2	35	62	63	17	24	46	76	33	9	...	...	...	...	...	...	...	...	...	Gulbarga.
3·4	—0·1	...	31·14	+3·14	3·80	VIII	38	—6·7	5·3	—1·7	3	22	0	103	0	138	4	87	0	...	...	...	...	...	...	...	...	...	Raichur.
4·5	+0·4	...	28·84	—3·43	2·41	X	52	+1·9	3·0	—0·7	7	6	20	29	14	15	100	32	142	...	...	...	...	...	...	...	...	...	Hyderabad.
4·2	—0·1	...	34·26	—0·16	2·78	IX	51	+0·5	5·3	+0·4	20	9	9	64	78	35	66	61	23	...	...	...	...	...	...	...	...	...	Hanamkonda.
																													Mysore
5·6	+0·8	...	25·89	+0·99	2·93	VI	41	—6·1	6·0	+0·7	9	17	65	32	7	95	97	17	35	...	...	...	...	...	...	...	...	...	Chitaldrug
5·8	...	...	24·22	...	4·80	VII	104	...	2·9	...	9	10	24	96	25	13	43	40	105	...	...	...	...	...	...	...	...	...	Balchonnur.
6·0	+0·6	...	33·27	—2·06	2·36	X	65	—2·1	4·9	+1·2	7	12	81	23	4	50	116	26	36	...	...	...	...	...	...	...	...	...	Hassan.
5·9	+0·7	6·2	43·38	+8·01	4·60	X	53	—5·9	6·5	+1·4	2	33	91	19	7	47	142	9	15	8	37	11	20	8	20	119	22	20	Bangalore.
5·6	0	...	39·65	+6·25	2·70	VI	61	+6·2	6·3	—0·4	5	54	36	4	16	91	77	2	80	...	...	...	...	...	...	...	...	...	Mysore.
																													Malabar
6·1	+1·0	...	124·86	—0·82	5·57	X	117	+0·5	5·5	+2·6	28	81	153	3	8	20	13	33	21	...	...	...	...	...	...	...	...	...	Mangalore.
5·3	+0·3	...	102·80	—14·36	5·68	VII	103	—10·9	5·3	—0·1	20	25	63	7	4	10	11	35	190	...	...	...	...	...	...	...	...	...	Calicut.
6·6	+1·8	...	83·29	—31·27	4·55	X	107	—22·5	5·8	+1·3	17	146	75	35	4	11	13	28	36	...	...	...	...	...	...	...	...	...	Cochin.
5·5	—0·2	6·9	59·56	—4·95	3·21	VIII	95	+0·2	4·0	—0·2	158	4	12	1	0	0	12	38	140	19	2	6	1	15	38	158	89	37	Trivandrum.
																													Madras, Southeast
4·5	+0·9	...	37·96	+0·86	3·88	X	53	+6·5	11·9	+4·0	47	65	17	54	54	74	20	27	7	...	...	...	...	...	...	...	...	...	Pamban.
6·2	+1·2	...	26·28	—7·80	2·42	IX	36	—13·1	5·3	+1·6	50	49	38	14	2	5	64	89	34	...	...	...	...	...	...	...	...	...	Madura.
6·8	+1·7	6·4	73·52	+18·54	7·97	XI	58	+2·2	8·7	+3·0	10	31	18	11	14	68	103	89	21	13	96	39	64	63	55	28	6	1	Nezapatam.
4·9	+0·4	...	37·97	+4·79	3·28	XI	46	—0·9	6·0	+1·9	66	63	2	4	14	85	108	22	1	...	...	...	...	...	...	...	...	...	Trichinopoly.
6·3	+1·8	...	15·00	—7·29	2·16	XI	35	—9·4	6·8	+3·3	46	63	28	9	79	86	16	13	25	...	...	...	...	...	...	...	...	...	Coimbatore.
4·4	—0·2	...	30·96	—8·34	2·12	VIII	50	—13·4	4·9	+1·6	9	98	11	1	32	80	46	4	84	...	...	...	...	...	...	...	...	...	Salem.
5·7	+1·2	...	46·53	—6·41	7·69	X	50	—6·4	6·3	+2·8	34	12	2	3	37	133	44	77	18	...	...	...	...	...	...	...	...	...	Cuddalore.
5·3	+1·6	...	40·26	—2·15	4·40	X	56	—0·2	4·2	+1·5	11	10	4	12	17	40	113	55	102	...	...	...	...	...	...	...	...	...	Vellore.
6·1	+1·4	5·9	40·34	—10·40	7·34	X	47	—10·3	10·6	+5·8	14	27	11	7	48	119	76	63	0	29	70	51	128	54	14	15	4	0	Madras.
																													Madras, Deccan
5·0	+0·8	...	32·76	+1·53	2·52	VII	44	—2·1	6·6	...	5	45	69	33	6	68	91	23	23	...	...	...	...	...	...	...	...	...	Cuddapah.
4·5	0	...	20·02	—0·49	4·11	IX	32	—3·3	4·5	—0·2	12	5	25	40	16	24	77	88	98	...	...	...	...	...	...	...	...	...	Bellary.
4·4	+0·5	...	26·08	+0·07	2·84	IX	39	—7·7	7·2	+2·0	19	34	35	21	19	55	83	41	58	...	...	...	...	...	...	...	...	...	Kurnool.
																													Madras Coast, North
4·6	—1·0	4·7	24·63	—13·05	2·92	X	28	—16·0	5·4	+0·9	17	9	8	40	50	26	123	68	24	6	27	193	49	8	11	67	8	2	Nellore.
4·2	—0·7	...	32·74	—8·85	4·55	VII	49	—5·5	5·9	+1·0	60	44	7	4	59	7	95	10	79	...	...	...	...	...	...	...	...	...	Masulipatam.
4·6	—0·3	4·0	24·90	—14·19	3·14	X	43	—10·9	3·5	—1·8	0	62	1	6	4	72	47	13	160	3	18	38	112	59	52	27	14	42	Cocanada.
4·3	—0·9	5·0	18·63	—18·46	2·78	X	30	—20·9	5·1	+1·6	25	25	4	0	3	2	188	49	49	0	28	53	39	86	112	41	5	1	Vizagapatam.
4·6	+0·8	...	29·58	—12·89	7·41	VI	37	—14·6	6·8	+0·7	46	9	6	3	14	75	112	92	8	...	...	...	...	...	...	...	...	...	Calingapatam.
4·2	+1·3	4·8	42·63	—2·33	6·00	VII	47	—9·2	10·0	+1·6	130	6	3	3	75	84	9	53	2		9	56	47	122	104	10	6	1	Gopalpur.

TABLE 11.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of barometer above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, inches.			Relative humidity, %.		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Hill Stations excluding Kashmir and Baluchistan.																						
Maymyo	3,546	26·370	—·001	26·298	78·0	+1·4	92	V	57·1	+0·7	32	I	64·9	70·7	61·6	64·5	·526	—·007	·543	83	—3	73
Haka	6,100	24·064	...	24·016	68·7	...	84	V	53·0	...	35	I	57·6	63·1	52·1	56·9	·363	...	·407	70	..	71
Kanpetlet	6,322	23·869	...	23·823	68·9	...	83	V	52·6	...	34	XII	62·4	60·9	54·7	55·9	·361	...	·401	63	...	75
Shillong	4,921	25·076	+·005	25·010	69·8	—0·1	84	V	53·5	+0·1	30	I	60·7	63·3	56·3	59·0	·421	+·006	·465	77	+3	79
Cherrapunji	4,309	25·631	0	25·562	68·9	+0·2	80	IV, VIII	57·4	+0·3	40	I	63·3	64·5	58·8	60·7	·457	—·014	·500	77	—4	81
Darjiling	7,432	22·897	—·008	...	58·4	—0·9	74	III	48·1	+0·4	27	I	52·3	...	50·2	...	·356	+·003	...	87	+2	...
Kalimpong	3,913	25·979	—·018	25·902	69·9	+0·4	83	V	58·3	+0·7	39	I	62·3	64·6	58·7	60·3	·473	—·012	·487	81	—3	76
Muktesar	7,592	22·806	+·014	22·765	62·3	—1·3	83	VI	47·8	—0·1	22	I	53·8	57·1	45·7	48·9	·237	—·035	·279	54	—7	58
Mussooree	6,940	23·316	+·018	...	63·8	—0·1	89	VI	49·6	—1·1	23	I	55·3	...	48·0	...	·277	—·032	...	59	—6	...
Simla	7,224	23·060	+·002	23·027	61·9	—0·5	84	VI	49·2	0	21	I	55·7	56·7	46·3	48·5	·237	—·020	·275	49	—3	57
Murree	7,115	23·161	...	23·138	60·6	—4·1	88	VI	46·1	—4·3	16	I	52·9	56·2	44·4	47·5	·226	—·041	·261	55	—1	56
Cherat	4,272	25·653	+·006	...	70·7	—1·9	105	VII	55·9	—0·6	26	I	60·1	...	51·8	...	·319	+·008	...	56	+4	...
Parachinar	5,673	24·354	—·032	24·315	69·1	—1·2	97	VI, VII	47·1	—0·8	13	I	56·8	64·0	46·8	50·8	·245	—·034	·259	49	—7	40
Drosh	4,723	25·407	...	...	70·1	—2·6	104	VII	50·1	—1·8	22	I	53·4	...	45·9	...	·250	—·033	...	57	—1	...
Mount Abu	3,945	25·981	+·003	25·922	75·1	—0·7	93	V	60·6	—1·4	32	I	63·6	71·9	57·9	59·5	·365	—·003	·376	52	—2	49
Pachmarhi	3,528	26·378	+·001	26·317	80·1	+0·2	102	V	58·8	—2·2	30	I	70·7	76·3	60·1	62·7	·419	—·017	·421	57	—5	49
Mahableshwar	4,534	25·470	...	...	73·9	...	94	V	60·6	...	49	I	66·5	...	58·1	...	·394	...	...	63	...	...
Mercara	3,781	26·155	—·007	...	75·8	—0·5	88	III	61·6	+0·5	52	I	65·7	...	62·7	...	·535	—·006	...	86	+1	...
Kodaikanal	7,688	22·777	+·010	22·728	64·2	+0·6	75	V	51·0	+0·2	40	I	56·5	57·9	50·9	54·4	·317	—·006	·388	71	+3	81
Coonoor	6,730	24·431	...	...	70·7	...	82	V	54·7	...	40	*	64·9	...	57·5	...	·398	...	...	66	...	...
Ceylon.																						
Colombo	24	29·837	—·002	...	85·7	—1·4	93	III	74·8	—0·4	67	I	77·9	...	74·8	...	·822	—·018	...	86	+1	...
Trincomalee	24	29·807	+·022	...	87·5	—1·8	98	V	76·8	+0·6	67	IV	79·3	...	74·5	...	·784	—·053	...	79	—4	...
Hambantota	61	29·775	—·008	...	85·6	—0·9	93	‡	74·7	—0·2	69	I, II, XI	78·3	...	75·1	...	·832	+·028	...	85	—5	...
Nuwara Eliya	6,170	24·052	...	...	68·7	...	78	V	51·0	...	33	II, XI	57·7	...	55·3	...	·412	—	...	86	...	...
Arabia.																						
†Aden	98	29·752	—·005	...	90·7	+2·9	105	VII	77·2	—0 8	65	II	80·7	...	76·5	...	·820	+·020	...	78	+3	...

* The lowest minimum temperature was recorded in January, February, November and December.
‡ The highest maximum temperature was recorded in the months June to October.

8 HRS. (L. M. T.) and 17 HRS. (I. S. T.) FOR THE YEAR 1935.

Cloud amount, (tenths of sky.)			Rainfall, inches.				Number of rainy days, (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																				STATION.
											8 hrs. L. M. T.										17 hrs. I. S. T.										
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Hill Stations excluding Kashmir and Baluchistan
5·1	+0·6	4·6	62·77	+4·15	5·46	XI	88	−2·8	1·1	−0·7	5	0	8	3	20	3	7	1	318	0	0	5	1	9	0	8	0	342	Maymyo.
4·7	...	6·3	70·69	...	3·48	V	105	...	4·9	...	52	94	67	7	12	18	12	9	94	12	35	116	23	21	25	11	4	118	Haka.
4·0	...	5·8	93·40	...	3·50	X	139	...	...	...	46	33	97	16	81	33	28	4	27	61	26	9	11	49	38	109	15	47	Kanpetlet.
4·7	+0·1	6·5	72·64	−11·28	4·11	VIII	118	−5·6	3·1	+0·9	33	31	31	7	34	81	27	10	111	43	31	19	6	25	65	26	12	138	Shillong.
5·9	+0·3	5·7	464·64	+40·57	22·70	VI	148	−11·2	5·8	+1·8	14	77	76	32	33	59	30	16	28	2	48	42	25	47	119	45	6	31	Cherrapunji.
5·7	−0·3	...	112·28	−10·39	5·20	VIII	134	+10·8	4·3	+1·5	6	33	66	31	5	10	18	11	185	...	...	...	...	...	...	...	...	...	Darjiling.
5·0	+0·8	5·4	78·77	−2·05	4·59	VIII	107	+6·8	6·5	...	8	0	4	43	5	1	33	194	74	1	0	1	263	61	0	2	18	16	Kalimpong.
3·3	−1·0	4·6	39·91	−12·37	2·22	IX	79	−2·3	...	...	16	37	43	28	13	29	146	25	28	0	14	10	12	8	106	193	7	15	Muktesar.
4·1	+0·3	...	79·68	...	4·12	VII	90	...	4·7	...	56	24	36	21	64	23	7	24	110	...	...	...	...	...	...	...	...	...	Mussooree.
4·2	+0·1	5·2	49·59	−13·98	3·60	VIII	84	−3·2	2·7	−0·3	34	89	23	41	55	28	7	10	78	44	50	14	26	58	62	21	31	59	Simla.
4·2	+0·5	5·3	60·88	+1·03	2·89	IV	94	+16·9	3·2	...	11	40	47	92	22	6	42	28	77	7	20	26	70	40	27	80	30	65	Murree.
4·1	+1·0	...	37·07	+9·56	3·53	I	47	+5·0	9·2	+1·9	149	7	1	41	46	4	6	81	30	...	...	...	...	...	...	...	...	...	Cherat.
3·7	+0·7	6·1	26·06	−3·46	1·46	IV	60	−4·8	4·6	+2·4	102	3	69	3	81	5	67	5	30	40	14	107	95	57	11	25	12	4	Parachinar.
2·9	−0·1	...	24·81	+8·06	2·05	III	56	+16·0	4·9	+2·1	5	22	42	75	41	35	22	2	121	...	...	...	...	...	...	...	...	...	Drosh.
3·2	−0·2	3·5	48·85	−11·91	5·66	IX	65	+11·3	4·7	−1·0	33	32	16	26	31	84	32	33	78	37	26	6	7	35	106	40	51	57	Mount Abu.
4·9	+1·3	5·3	35·24	+8·72	5·76	VII	85	+7·5	2·5	−1·8	17	23	17	15	21	20	87	68	97	29	25	5	6	8	12	106	84	90	Pachmarhi.
4·1	...	...	195·87	−69·62	9·15	VII, IX	111	−10·5	...	...	19	37	106	21	27	55	44	23	38	...	...	...	...	...	...	...	...	...	Mahableshwar.
5·5	−0·7	...	121·20	−4·26	4·40	VII	129	−3·4	6·7	+2·7	1	42	45	1	2	7	61	58	148	...	...	...	...	...	...	...	...	...	Mercara.
5·3	+0·7	7·7	77·08	+14·90	13·63	XI	99	−7·6	6·8	−2·1	31	91	22	43	15	3	24	79	57	25	54	20	62	24	0	17	80	33	Kodaikanal.
5·4	...	...	53·74	...	3·20	IV	79	...	3·5	...	15	19	20	142	51	15	12	48	43	...	...	...	...	...	...	...	...	...	Coonoor.
																													Ceylon.
6·2	+0·1	...	96·76	+12·60	4·81	X	122	+11·0	4·7	−0·6	13	66	60	86	15	70	39	4	72	...	...	...	...	...	...	...	...	...	Colombo.
5·1	+0·8	...	77·54	+15·95	5·47	XI	72	−0·2	8·3	+1·8	28	38	23	4	10	108	113	12	29	...	...	...	...	...	...	...	...	...	Trincomalee.
4·8	+0·2	...	56·42	+15·61	3·17	X	83	+12·4	10·2	+1·5	12	81	4	0	6	63	111	1	87	...	...	...	...	...	...	...	...	...	Hambantotta.
6·1	...	...	74·55	−18·83	3·37	X	131	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nuwara Eliya.
																													Arabia.
4·3	+0·2	...	3·81	+1·87	2·17	I	4	+0·4	6·5	−2·4	14	116	33	17	34	21	25	4	101	...	...	...	...	...	...	...	...	...	†Aden.

† Records observations at 7 hrs. (L. M. T.).

TABLE II-A—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION AND MONTH.	Height of bar. cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity, %.		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
TABLE ISLAND. (Bay Islands.)	105																					
January	...	29·848	+·008	...	82·7	−0·3	85	27	72·8	−2·3	67	15	78·5	...	72·3	...	·703	−·007	...	73	0	...
February	...	29·795	−·018	...	84·6	+0·8	87	15	73·4	−1·4	70	10	79·4	...	73·4	...	·729	+·016	...	74	0	...
March	...	29·756	−·031	...	88·3	+1·7	91	12, 18, 19	76·2	−0·1	73	1, 6, 8	82·4	...	75·5	...	·772	−·019	...	74	−3	...
April	...	29·703	−·037	...	90·8	+1·4	93	20	78·7	−0·5	73	25	84·2	...	77·4	...	·880	−·019	...	72	−2	...
May	...	29·646	−·013	...	89·3	+0·9	94	6, 8	79·1	−0·4	71	21	84·1	...	78·8	...	·914	−·016	...	79	−2	...
June	...	29·627	+·025	...	85·4	+0·1	88	6, 8	76·7	−1·1	73	4 days	81·8	...	79·0	...	·948	−·009	...	87	−1	...
July	...	29·571	−·030	...	84·3	0	86	9, 11, 24	76·4	−0·8	73	4 days	81·0	...	78·6	...	·955	−·002	...	90	0	...
August	...	29·667	+·029	...	84·8	+0·8	89	19	77·0	−0·2	73	1, 2, 28	81·4	...	77·9	...	·910	−·031	...	85	−4	...
September (*n*)	...	29·660	−·010	...	82·8	−1·5	...	...	75·5	−1·6	...	...	79·6	...	77·6	...	·930	+·007	...	90	+2	...
October	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
November	...	29·775	0	...	84·1	−0·8	86	4 days	75·1	−2·7	70	10, 29	80·4	...	77·1	...	·878	+·024	...	84	+4	...
December	...	29·809	−·006	...	82·4	−0·7	91	1	74·3	−2·0	70	28	79·1	...	74·7	...	·806	+·065	...	81	+7	...
Year	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CAR NICOBAR. (Bay Islands.)	19																					
January	...	29·879	+·028	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
February	...	29·838	−·024	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
March	...	29·815	−·021	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
April	...	29·779	−·029	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
May	...	29·750	−·020	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
June	...	29·737	−·005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
July	...	29·721	−·022	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
August	...	29·775	+·015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
September	...	29·765	−·020	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
October	...	29·758	−·043	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
November	...	29·817	−·002	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
December	...	29·823	−·011	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Year	...	29·788	−·013	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
MINICOY. (Arabian Sea.)	9																					
January	...	29·927	+·014	...	86·3	+0·4	88	12	75·1	...	70	2	81·4	...	75·3	...	·785	−·012	...	74	−3	...
February	...	29·899	−·009	...	87·1	+0·7	88	9 days	75·9	...	72	5 days	81·8	...	75·6	...	·815	+·015	...	73	−3	...
March	...	29·870	−·012	...	88·7	+0·8	90	11 days	76·8	...	72	6, 7	83·1	...	75·5	...	·765	−·067	...	69	−5	...
April	...	29·839	+·003	...	89·5	0	92	28, 29	79·2	...	75	5	84·5	...	77·5	...	·831	−·043	...	71	−3	...
May	...	29·821	+·002	...	91·5	+2·5	93	7 days	81·5	...	79	4 days	86·1	...	78·7	...	·887	−·018	...	71	−6	...
June	...	29·795	−·010	...	86·8	+0·5	93	5	77·3	...	3	22, 24	82·2	...	77·6	...	·896	−·006	...	81	−1	...
July	...	29·819	−·003	...	85·4	−0·3	87	10 days	77·1	...	74	9, 15, 30	81·4	...	77·2	...	·872	−·009	...	82	0	...
August	...	29·847	+·001	...	85·0	−0·7	87	6 days	76·9	...	73	6, 30	80·0	...	75·8	...	·842	−·020	...	82	+1	...
September	...	29·868	+·003	...	85·1	−0·6	88	28	75·8	...	73	4 days	80·6	...	76·1	...	·835	−·015	...	81	+1	...
October	...	29·840	−·023	...	86·0	−0·1	89	4, 22	76·5	...	74	6 days	81·6	...	76·1	...	·821	−·041	...	77	−4	...
November	...	29·892	+·014	...	85·7	−0·6	88	11, 15	76·3	...	72	30	81·1	...	76·6	...	·865	+·018	...	81	+2	...
December	...	29·896	−·002	...	85·7	−0·5	88	4 days	75·6	...	69	4	81·3	...	75·1	...	·785	−·024	...	74	−3	...
Year	...	29·859	−·002	...	86·9	+0·2	93	V, VI	76·9	...	69	XII	82·1	...	76·4	...	·833	−·019	...	76	−2	...

(*n*) Mean of 17 days except pressure.

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR EACH MONTH AND THE YEAR 1935.

Cloud amount, (tenths of sky)			Rainfall, inches.				Number of rainy days (0·10" or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION AND MONTH.
											8 hrs. L. M. T.									17 hrs. I. S. T.								
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total for the month or year.	Departure from normal.	Heaviest fall in 24 hours.	Date.	In the month or year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm.	N	NE	E	SE	S	SW	W	NW	Calm.	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													TABLE ISLAND (Bay Islands.)
2·4	-1·7	...	0	-0·77	0	...	0	-0·7	8·9	+1·6	18	13	0	0	0	0	0	0	0	...	...	...	...	...	...	...	...	...	January
1·9	-1·3	...	0	-0·12	0	...	0	-0·3	8·7	+2·2	27	0	0	0	0	0	1	0	0	...	...	...	...	...	...	...	...	...	February
2·6	-0·9	...	0	-0·17	0	...	0	-0·3	6·0	+0·6	18	3	0	0	0	0	4	3	3	...	...	...	...	...	...	...	...	...	March
4·4	+0·4	...	1·04	+0·41	0·54	25	3	+1·9	6·0	+0·5	9	3	1	0	1	1	12	2	1	...	...	...	...	...	...	...	...	...	April
6·5	+0·2	...	12·69	+3·94	5·60	26	13	+2·3	10·2	+0·3	6	0	0	0	2	11	12	0	0	...	...	...	...	...	...	...	...	...	May
7·4	-0·3	...	17·16	+2·06	3·23	14	19	+2·2	17·0	+1·4	0	0	0	0	6	22	2	0	0	...	...	...	...	...	...	...	...	...	June
8·5	+0·5	...	13·28	-0·23	2·11	11	19	+1·4	21·7	+4·2	0	0	0	0	2	26	2	1	0	...	...	...	...	...	...	...	...	...	July
6·5	-1·5	...	8·58	-2·89	2·76	29	12	-4·2	12·4	-4·4	1	0	0	1	7	16	4	0	2	...	...	...	...	...	...	...	...	...	August
8·6	+1·6	...	16·10	+4·76	...	...	...	...	16·7	+5·4	0	0	0	0	6	10	1	0	0	...	...	...	...	...	...	...	...	...	September(*n*)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	October
5·6	+0·3	...	15·09	+9·44	0·60	2	12	+5·2	5·0	-1·7	9	12	1	1	2	2	0	0	3	...	...	...	...	...	...	...	...	...	November
6·0	+1·8	...	7 28	+4·91	2·22	23	9	+6·7	10·4	+2·7	7	21	1	0	0	0	0	0	2	...	...	...	...	...	...	...	...	...	December
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*Year*
																													CAR NICOBAR. (Bay Islands.)
5·6	...	...	5·91	+1·80	1·93	7	7	+2·8	10·0	...	3	17	10	1	0	0	0	0	0	...	...	...	...	...	...	...	...	...	January
4·3	...	...	0·72	-0·39	0·46	14	2	0	8·6	...	1	21	5	0	0	0	0	0	1	...	...	...	...	...	...	...	...	...	February
4·8	...	...	2·86	+1·48	2·50	3	2	0	4·9	...	7	14	6	1	1	0	0	2	0	...	...	...	...	...	...	...	...	...	March
7·2	...	...	7·03	+3·96	3·48	26	8	+2·7	3·2	...	7	3	3	1	2	1	4	4	5	...	...	...	...	...	...	...	...	...	April
8·3	...	...	22·44	+9·61	6·51	24	16	+1·7	2·5	...	4	1	1	0	7	5	5	7	1	...	...	...	...	...	...	...	...	...	May
7·2	...	...	12·21	-0·32	3·15	11	17	+2·4	2·2		0	0	0	1	12	11	4	0	2	...	...	...	...	...	...	...	...	...	June
9·1	...	...	11·04	+1·95	2·75	13	15	+2·9	2·9	...	0	0	0	0	0	9	19	1	0	2	...	...	...	...	...	...	...	...	July
8·7	...	...	15·11	+4·60	5·32	23	18	+4·8	2·0	...	0	0	1	0	1	17	1	1	10	...	...	...	...	...	...	...	...	...	August
8·1	...	...	7·99	-4·47	3·64	17	13	-1·5	2·5	...	1	0	0	0	6	17	4	2	0	...	...	...	...	...	...	...	...	...	September
6·7	...	...	11·56	+0·30	3·50	28	15	+0·7	1·8	...	2	2	3	5	3	2	5	1	8	...	...	...	...	...	...	...	...	...	October
6·3	...	...	6·70	-3·92	1·37	1	15	+3·0	3·9	...	5	5	7	7	0	5	0	0	1	...	...	...	...	...	...	...	...	...	November
6·9	...	...	10·00	+2·13	2·46	7	14	+5·3	7·1	...	1	15	8	3	1	0	0	0	3	...	...	...	...	...	...	...	...	...	December
6·9	...	...	113·57	+16·73	6·51	V	142	+24·8	4·3	...	31	78	44	19	42	77	24	17	33	...	...	...	...	...	...	...	...	...	*Year*
																													MINICOY. (Arabian Sea.)
4·8	+1·8	...	0·45	-1·43	0·23	29	1	-1·7	2·1	-1·5	8	16	4	0	0	0	0	0	3	...	...	...	...	...	...	...	...	...	January
3·5	+0·5	...	0·56	-0·09	0·31	28	3	+1·9	2·1	-1·2	15	4	0	0	0	0	0	1	8	...	...	...	...	...	...	...	...	...	February
3·6	+0·8	...	0	-1·04	0	...	0	-1·6	2·2	-1·1	12	6	0	0	1	0	1	7	4	...	...	...	...	...	...	...	...	...	March
4·4	+0·5	...	3·11	+0·49	1·65	5	4	+0·4	2·8	-1·3	9	2	2	1	0	0	1	13	2	...	...	...	...	...	...	...	...	...	April
(*b*) 4·7	-0·3	...	0·87	-5·52	0·33	19	3	-5·6	3·8	-2·3	3	0	0	0	0	1	18	9	0	...	...	...	...	...	...	...	...	...	May
7·8	+1·0	...	16·24	+4·33	3·53	22	20	+2·7	7·4	-3·1	2	0	0	0	0	10	15	3	0	...	...	...	...	...	...	...	...	...	June
7·9	+1·6	...	8·80	0	1·94	3	16	+2·1	8·8	-1·5	0	0	0	0	0	6	13	7	0	...	...	...	...	...	...	...	...	...	July
7·9	+2·4	...	11·06	+3·90	1·46	24	21	+10·0	5·3	-2·9	6	0	0	0	0	0	3	21	1	...	...	...	...	...	...	...	...	...	August
5·7	+0·7	...	4·47	-1·94	1·77	7	10	-0·1	4·7	-1·8	5	1	0	0	0	4	8	12	0	...	...	...	...	...	...	...	...	...	September
6·8	+1·6	...	6·49	-1·83	1·84	19	10	-1·6	4·9	-0·3	4	0	0	0	1	0	11	11	4	...	...	...	...	...	...	...	...	...	October
5·7	+1·2	...	0·32	+1·03	2·60	17	8	+0·9	2·7	-1·2	8	1	3	1	1	4	4	1	7	...	...	...	...	...	...	...	...	...	November
4·7	+1·2	...	4·53	+1·02	2·52	27	7	+2·8	3·1	-0·5	6	10	2	4	2	1	0	0	6	...	...	...	...	...	...	...	...	...	December
5·6	+1·1	...	62·90	-1·08	3·53	VI	103	+10·2	4·2	-1·5	78	40	11	6	5	26	79	85	35	...	...	...	...	...	...	...	...	...	*Year*

(*b*) Mean of 29 days.

TABLE II-A—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION AND MONTH.	Height of bar. cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity, %		
		Mean 8 hrs. L.M.T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean	Departure from normal.	Lowest.	Date.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
AMINI DIVI (Arabian Sea)	13																					
January	...	29·931	+·002	...	88·5	+2·4	92	9	75·0	+1·0	70	20	82·7	...	75·0	...	·765	-·011	...	68	-4	...
February	...	29·898	-·025	...	90·2	+2·1	93	12, 15	77·5	+1·5	73	9	82·8	...	75·7	...	·801	+·013	...	71	-1	...
March	...	29·870	-·020	...	90·4	+0·9	93	13, 31	77·7	+0·1	75	7, 18	84·3	...	76·6	...	·824	-·004	...	69	-3	...
April	...	29·838	+·004	...	91·3	+0·1	95	17, 21	80·2	+0·4	77	4 days	86·8	...	78·4	...	·842	-·035	...	67	-4	...
May	...	29·804	-·004	...	90·8	-0·7	95	24	82·0	+1·4	77	18	86·5	...	78·9	...	·897	-·027	...	70	-4	...
June	...	29·759	-·008	...	86·3	-1·0	91	1, 2, 4	78·1	0	75	7, 15, 22	82·7	...	79·0	...	·942	+·017	...	84	+2	...
July	...	29·774	-·014	...	84·6	-1·1	87	3	77·5	+0·1	72	31	81·8	...	79·1	...	·955	+·063	...	88	+5	...
August	...	29·822	-·001	...	84·0	-1·7	88	22	77·0	-0·4	73	26	81·4	...	78·3	...	·916	+·036	...	87	+5	...
September	...	29·835	-·013	...	84·0	-1·8	87	24	76·3	-0·9	74	2	81·3	...	77·2	...	·872	+·008	...	83	+2	...
October	...	29·811	-·046	...	85·9	-0·5	90	4, 6	77·8	+0·5	71	15	82·2	...	76·9	...	·851	-·017	...	78	-2	...
November	...	29·886	+·011	...	88·0	+1·5	91	16	76·3	+0·8	72	30	83·7	...	77·7	...	·876	+·042	...	75	-1	...
December	...	29·900	-·008	...	87·9	+1·6	91	8	75·7	+1·9	71	1, 2	83·2	...	75·9	...	·794	+·012	...	70	-2	...
Year	...	29·844	-·010	...	87·7	+0·2	95	IV, V	77·5	+0·5	70	I	83·3	...	77·4	...	·860	+·	...	76	0	...
KATMANDU (Nepal)	4,388																					
January	...	25·740	...	25·677	62·7	—3·4	73	27	33·2	—3·1	29	5	36·0	55·6	35·1	47·6	·191	...	·242	91	...	54
February	...	25·669	...	25·601	68·9	—0·4	75	16	40·7	+2·1	34	2	44·7	62·6	43·3	57·6	·260	...	·424	89	...	74
March	...	25·691	...	25·601	79·8	+1·8	87	18	44·5	—0·6	36	3, 4	52·7	74·2	48·2	64·0	·283	...	·479	72	...	57
April	...	25·613	...	25·538	83·4	—0·9	92	30	47·4	—4·9	41	13	60·1	77·6	51·2	57·8	·270	...	·250	52	...	26
May	...	25·528	...	25·467	90·0	+4·7	94	7	59·9	+0·8	51	15	72·0	82·2	64·5	71·0	·529	...	·629	6	...	58
June	...	25·454	...	25·381	85·4	+0·7	92	7	65·6	—0·7	60	7	72·6	81·4	67·2	70·8	·596	...	·684	75	...	59
July	...	25·401	...	25·335	84·4	—0·5	89	23	68·7	+0·4	66	16	74·1	79·6	70·3	72·3	·685	...	·728	82	...	71
August	...	25·460	...	25·387	82·1	—2·2	88	3, 9, 29	66·8	—1·1	61	23	71·2	76·5	68·3	71·4	·649	...	·699	86	...	78
September	...	25·513	...	25·436	81·4	—2·5	88	26, 27	65·4	—0·1	57	30	70·1	76·7	67·1	70·5	·626	...	·687	85	...	74
October	...	25·651	...	25·558	82·8	+2·0	87	16	52·5	—3·1	45	23, 25	58·0	71·8	55·8	63·5	·425	...	·476	88	...	62
November	...	25·697	...	25·615	75·2	+0·7	81	1	44·8	+0·2	40	11, 18	49·0	64·2	47·8	57·2	·323	...	·384	93	...	64
December	...	25·603	...	25·609	67·0	—1·1	72	16	35·7	—1·2	29	31	38·8	58·1	37·7	50·5	·217	...	·237	91	...	59
Year	...	25·593	...	25·517	78·6	—0·1	94	V	52·1	—1·0	29	I, XII	58·3	71·7	54·7	62·0	·421	...	·493	81	...	61
GYANTSE (Tibet)	13,110																					
January	...	18·363	...	...	39·8	...	51	15	5·6	...	0	6 days	12·4	...	11·7	...	·074	...	...	93	...	...
February	...	18·351	...	...	45·4	...	58	16	13·1	...	1	3	21·7	...	18·5	...	·082	...	...	67	...	...
March	...	18·480	...	...	50·6	...	62	16	20·0	...	12	7	31·3	...	25·7	...	·098	...	...	56	...	...
April	...	18·418	...	...	52·6	...	66	29	23·3	...	17	2	38·0	...	29·9	...	·104	...	...	45	...	...
May	...	18·475	...	...	65·5	...	77	30	36·6	...	31	14	49·9	...	38·3	...	·128	...	...	36	...	...
June	...	18·464	...	..	71·1	...	80	26, 27	43·0	...	39	8	54·2	...	43·8	...	·196	...	...	47	...	...
July	...	18·465	...	...	71·8	...	82	8	47·2	...	40	15	55·7	...	47·0	...	·248	...	...	56	...	...
August	...	18·515	...	...	66·8	...	76	5	44·0	...	40	27	51·4	...	46·8	...	·282	...	...	73	...	...
September	...	18·504	...	...	67·6	...	74	11	41·8	...	35	29, 30	51·5	...	45·1	...	·242	...	...	63	...	...
October	...	18·536	...	...	61·8	...	70	18	26·7	...	17	29	40·4	...	32·3	...	·114	...	...	45	...	...
November	...	18 489	...	...	50·9	...	57	1, 2	17·4	...	10	11, 25, 27	28·4	...	24·0	...	·095	...	...	64	...	...
December	...	18·404	...	...	44·5	...	53	11	10·0	...	1	29	17·8	...	15·8	...	·077	...	...	81	...	...
Year	...	18·465	...	...	57·4	...	82	VII	27·4	...	0	I	37·7	...	31·6	...	·145	...	...	61	...	...

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR EACH MONTH AND THE YEAR 1935.

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days. (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION AND MONTH.
											8 hrs. L. M. T.									17 hrs. I. S. T.								
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the month or year.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month or year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													AMINI DIVI (Arabian Sea)
3·7	0	...	0·32	−0·38	0·22	30	1	−0·1	4·1	+0·1	12	13	0	0	0	0	0	6	0	...	...	...	...	...	...	...	...	...	January
3·6	+0·1	...	0·04	−0·04	0·04	14	0	−0·3	5·2	+0·2	17	4	1	0	0	0	0	6	0	...	...	...	...	...	...	...	...	...	February
3·5	+0·4	...	0	−0·05	0	...	0	−0·1	4·8	−0·3	12	2	1	0	1	0	4	11	0	...	...	...	...	...	...	...	...	...	March
4·0	−0·2	...	0·12	−1·38	0·09	4	0	−1·7	5·4	−0·3	15	0	1	1	0	0	1	12	0	...	...	...	...	...	...	...	...	...	April
5·4	−0·2	...	0·37	−3·30	0·25	18	1	−3·7	7·7	+0·4	4	1	0	0	0	0	3	22	1	...	...	...	...	...	...	...	...	...	May
8·8	+1·0	...	11·65	−2·66	2·12	24	19	+2·5	10·6	−2·1	1	1	0	0	0	3	16	8	1	...	...	...	...	...	...	...	...	...	June
8·8	+1·2	...	15·53	+3·53	4·07	1	16	+0·3	13·4	−0·7	0	0	0	0	0	6	20	5	0	...	...	...	...	...	...	...	...	...	July
8·1	+1·1	...	11·59	+3·94	3·10	26	15	+3·6	12·2	−0·8	2	1	0	0	0	0	13	15	0	...	...	...	...	...	...	...	...	...	August
6·8	+0·5	...	6·28	−0·07	1·30	10	17	+0·5	9·3	−0·8	4	0	0	0	0	1	13	11	1	...	...	...	...	...	...	...	...	...	September
7·2	+1·1	...	3·79	−2·02	0·80	17	7	−1·7	5·2	−1·3	9	1	0	1	0	3	4	9	4	...	...	...	...	...	...	...	...	...	October
3·8	−1·0	...	5·13	+2·55	2·48	17	3	−1·2	2·7	−1·0	15	6	2	1	0	0	0	3	3	...	...	...	...	...	...	...	...	...	November
4·2	+0·6	...	2·75	+1·48	1·08	28	3	+1·0	2·4	−1·0	14	11	4	0	0	0	0	0	2	...	...	...	...	...	...	...	...	...	December
5·7	+0·4	...	57·57	+1·60	4·07	VII	82	+5·1	6·9	−0·6	105	40	9	3	1	13	74	108	12	...	...	...	...	...	...	...	...	...	*Year*
																													KATMANDU (Nepal).
6·5	...	3·0	1·15	0	0·85	4	2	+0·4	1·3	...	0	0	0	0	0	0	0	0	31	2	0	0	0	0	0	0	7	22	January.
3·7	...	5·5	0·69	−0·25	0·58	17	2	+0·1	1·3	...	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1	2	5	20	February.
2·0	...	3·2	0·27	−0·87	0·23	26	1	−1·4	1·2	...	0	0	0	0	0	0	0	2	29	0	0	0	0	0	0	1	2	28	March.
(b) 2·3	...	(b) 4·0	0	−1·99	0	...	0	−4·5	1·2	...	0	0	0	0	0	0	0	0	30	0	0	0	1	1	0	4	0	24	April.
(a) 3·4	...	(a) 6·0	2·89	−1·24	0·97	31	6	−2·9	1·3	...	0	0	0	2	0	0	0	0	29	1	0	0	1	0	0	4	0	25	May.
6·4	...	5·4	6·66	−2·52	1·13	1	13	−2·0	1·1	...	0	2	1	0	1	0	0	0	26	3	0	1	1	0	1	4	2	18	June.
8·4	...	7·0	10·03	−4·18	1·64	29	20	−0·8	1·2	...	0	3	4	1	0	0	1	0	22	4	2	1	2	0	0	2	2	18	July.
9·2	...	8·1	17·41	+2·64	1·87	9	24	+1·9	0·9	...	0	2	3	0	0	0	1	0	25	0	2	4	2	2	2	3	1	15	August.
8·6	...	6·7	7·86	+0·94	1·53	5	16	+3·6	1·0	...	0	1	3	0	1	0	0	0	25	0	1	0	0	0	0	0	0	29	September.
5·6	...	3·4	0·31	−2·32	0·31	3	1	−2·1	1·0	...	0	0	0	0	0	0	0	0	31	2	0	0	0	0	0	1	0	28	October.
7·6	...	2·5	0·08	−0·05	0·08	9	0	−0·5	0·9	...	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	1	0	29	November.
8·1	...	1·8	0	−0·32	0	...	0	−0·8	1·0	...	0	0	0	0	0	0	0	0	31	1	0	0	0	0	0	1	1	28	December.
6·0	...	4·7	47·35	−10·16	1·87	VIII	85	−9·0	1·1	...	0	8	11	3	2	0	2	2	337	13	5	6	7	3	4	23	20	284	*Year*
																													GYANTSE (Tibet)
1·3	...	...	0	...	0	...	0	...	4·4	...	0	0	0	5	0	5	0	0	21	...	...	...	...	...	...	...	...	...	January
1·6	...	...	0·10	...	0·07	7	0	...	4·6	...	0	1	0	8	1	1	0	0	17	...	...	...	...	...	...	...	...	...	February
1·8	...	...	1·10	...	0·40	22, 25	3	...	5·0	...	0	0	0	8	2	0	0	0	21	...	...	...	...	...	...	...	...	...	March
2·2	...	...	0	...	0	...	0	...	7·0	...	0	0	1	11	1	1	1	0	15	...	...	...	...	...	...	...	...	...	April
2·4	...	...	0·30	...	0·19	17	2	...	5·6	...	0	0	1	12	1	0	0	0	17	...	...	...	...	...	...	...	...	...	May
4·0	...	...	2·07	...	0·89	28	3	...	4·4	...	0	1	3	8	2	0	0	1	15	...	...	...	...	...	...	...	...	...	June
7·5	...	...	0·89	...	0·26	5	6	...	3·5	...	1	0	0	2	1	1	0	4	22	...	...	...	...	...	...	...	...	...	July
7·7	...	...	4·31	...	0·92	19	13	...	2·8	...	1	0	0	1	0	0	0	2	27	...	...	...	...	...	...	...	...	...	August
5·2	...	...	1·84	...	0·36	4	9	...	3·0	...	0	0	0	11	1	0	0	0	18	...	...	...	...	...	...	...	...	...	September
0·3	...	...	0	...	0	...	0	...	3·6	...	0	0	1	9	9	0	0	0	12	...	...	...	...	...	...	...	...	...	October
0·4	...	...	0	...	0	...	0	...	4·4	...	0	0	0	4	3	1	0	0	22	...	...	...	...	...	...	...	...	...	November
1·5	...	...	0·03	...	0·03	3	0	...	4·6	...	0	0	1	7	1	1	1	0	20	...	...	...	...	...	...	...	...	...	December
3·0	...	...	10·64	...	0·92	VIII	35	...	4·4	...	2	2	7	86	22	10	2	7	227	...	...	...	...	...	...	...	...	...	*Year*

(*a*) Mean of 30 days. (*b*) Mean of 29 days. (*h*) Mean of 23 days.

TABLE II-A.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION AND MONTH.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches. Mean 8 hrs. L. M. T.	Pressure reduced to 32°F and standard gravity, inches. Departure from normal.	Pressure reduced to 32°F and standard gravity, inches. Mean 17 hrs. I. S. T.	Maximum temperature °F. Mean.	Maximum temperature °F. Departure from normal.	Maximum temperature °F. Highest.	Maximum temperature °F. Date.	Minimum temperature °F. Mean.	Minimum temperature °F. Departure from normal.	Minimum temperature °F. Lowest.	Minimum temperature °F. Date.	Dry bulb temperature °F. Mean 8 hrs. L. M. T.	Dry bulb temperature °F. Mean 17 hrs. I. S. T.	Wet bulb temperature °F. Mean 8 hrs. L. M. T.	Wet bulb temperature °F. Mean 17 hrs. I. S. T.	Vapour pressure, inches. Mean 8 hrs. L. M. T.	Vapour pressure, inches. Departure from normal.	Vapour pressure, inches. Mean 17 hrs. I. S. T.	Relative humidity, %. Mean 8 hrs. L. M. T.	Relative humidity, %. Departure from normal.	Relative humidity, %. Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
KASHGAR* (Eastern Turkistan)	4,296																					
January		...	25·54	−·18	...	28·5	−5·6	38	1	11·9	−0·3	−4	18	15·4	...	14 5	...	·078	−·009	...	85	+9	...
February		...	25·42	−·24	...	49·5	+6·3	60	28	23·6	+3·8	12	1	26·4	...	25·3	...	·125	+·022	...	87	+16	...
March		...	25·36	−·22	...	61·7	+4·2	78	19	36·2	+1·1	29	4, 5	39·6	...	36·0	...	·171	+·018	...	71	+14	...
April		...	25·32	−·21	...	70·2	−1·8	87	26, 29	45·5	−3·0	37	4	51·3	...	44·7	...	·224	+·000	...	60	+13	...
May		...	25·41	−·11	...	78·7	−3·3	94	11	54·5	−3·4	44	25	61·2	...	54·2	...	·336	+·026	...	65	+19	...
June		...	25·23	−·20	...	88·0	−1·8	97	29	62·7	−1·4	57	13, 15, 16	70·2	...	63·4	...	·494	+·103	...	70	+26	...
July		...	25·23	−·16	...	91·1	−1·4	100	7	66·8	−1·1	57	2	74·1	...	65·0	...	·512	+·050	...	62	+13	...
August		...	25·27	−·20	...	92·2	+1·7	101	9	64·9	−0·8	54	25	73·5	...	64·1	...	·485	+·021	...	60	+6	...
September		...	25·37	−·22	...	82·1	−1·7	98	2, 3	54·5	−2·5	40	22	61·2	...	55·0	...	·363	+·020	...	68	+13	...
October		...	25·49	−·21	...	72·0	+1·1	77	9, 24, 31	41·6	−1·1	32	26, 27	48·9	...	44·1	...	·236	+·024	...	68	+11	...
November		...	25·53	−·22	...	47·0	−6·3	70	1	29·3	+1·3	23	18	33·2	...	31·0	...	·152	+·017	...	80	+13	...
December		...	25·60	−·17	...	30·3	−7·0	62	7	12·4	−4·3	2	17	15·3	...	14·4	...	·075	−·007	...	85	+6	...
Year		...	25·40	−·19	...	65·9	−1·3	101	VIII	42·0	−1·0	−4	I	47·5	...	42·6	...	·270	+·024	...	72	+13	...
KABUL (Afghanistan)	5,955																					
January		...	24·315	...	...	31·7	...	44	4	15·3	...	−6	13, 16	(*l*) 24·3	...	(*l*) 22·3	...	(*l*) ·099	...	...	(*l*) 76	...	...
February		...	24·304	...	...	36·8	...	44	14	20·5	...	6	9	26·6	...	24·0	...	·103	...	...	71	...	...
March		...	24·312	...	...	54·4	...	65	12	35·1	...	21	1, 2	44·0	...	37·2	...	·144	...	...	52	...	...
April		...	24·234	...	...	61·2	...	75	24	40·5	...	31	14	52·7	...	44·6	...	·207	...	...	54	...	...
May		...	24·226	...	...	75·3	...	84	15	48·6	...	36	24	66·1	...	53·6	...	·273	...	...	43	...	...
June		...	24·139	...	...	80·8	...	89	29, 30	52·4	...	42	2	72·1	...	57·5	...	·297	...	...	39	...	...
July		...	24·074	...	...	91·1	...	97	7, 8	58·5	...	53	4, 26, 27	82·0	...	63·3	...	·360	...	...	34	...	...
August		...	24·122	...	...	90·9	...	99	10	58·9	...	52	5 days.	79·3	...	62·6	...	·383	...	...	38	...	...
September		...	24·201	...	...	83·6	...	90	2, 7	48·0	...	36	21	68·8	...	51·7	...	·192	...	...	26	...	...
October		...	24·330	...	...	70·7	...	80	2	40·5	...	33	12	53·7	...	42·6	...	·151	...	...	37	...	...
November		...	24·375	...	...	50·6	...	77	3	33·9	...	25	29	42·3	...	35·6	...	·137	...	...	51	...	...
December		...	24·348	...	...	49·0	...	63	4	25·9	...	14	11	32·8	...	28·4	...	·107	...	...	59	...	...
Year		...	24·248	...	...	65·4	...	99	VIII	39·8	...	−6	I	53·7	...	43·6	...	·204	...	...	48	...	...
†HINAIDI (Baghdad) 6 hrs. (G. M. T.) (IRAQ).	109																					
January		...	30·120	...	..	61·5	...	68	31	34·5	...	24	13	44·8	...	41·7	...	·227	...	...	76	...	...
February		...	30·000	...	...	65·8	...	75	13	44·1	...	33	6	51·1	...	46·6	...	·263	...	...	69	...	...
March		...	29·963	...	...	77·5	...	85	28, 29	50·5	...	41	22, 23	60·8	...	50·5	...	·235	...	...	43	...	...
April		...	29·883	...	..	84·8	...	100	29	55·8	...	46	5, 6	70·2	...	56·8	...	·285	...	...	38	...	...
May		...	29·803	...	...	98·3	...	107	5, 28	68·4	...	62	10	84·6	...	68·4	...	·409	...	...	40	...	...
June		...	29·613	...	...	107·8	...	115	6	73·2	...	66	19	90·8	...	66·0	...	·303	...	...	21	...	...
July		...	29·503	...	...	111·7	...	121	21	77·7	...	73	4, 11	94·2	...	67·7	...	·328	...	...	20	...	...
August		...	29·573	...	...	112·5	...	118	23	78·0	...	72	12	94·0	...	68·7	...	·365	...	...	23	...	...
September		...	29·696	...	...	108·1	...	117	2, 3	71·5	...	66	20	88·5	...	66·0	...	·337	...	...	25	...	...
October		...	29·9.7	...	...	94·3	...	104	10	64·8	...	54	26	77·2	...	63·0	...	·388	...	...	42	...	...
November		...	30·060	...	...	72·4	...	91	7	51·1	...	37	21	58·8	...	54·1	...	·357	...	...	73	...	...
December		...	30·120	...	...	64·2	...	70	3, 6	46·9	...	39	26	52·1	...	50·9	...	·360	...	...	98	...	...
Year		...	29·854	...	...	88·2	...	2 1	VII	60·0	...	24	I	72·3	...	58·4	...	·326	...	...	47	...	...

*Aneroid barometer in use.
(*l*) Mean of 19 days.
†Pressure reduced to M. S. L.

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR EACH MONTH AND THE YEAR 1935.

Cloud amount, (tenths of sky.)			Rainfall, inches.				Number of rainy days. (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION AND MONTH.
											8 hrs. L. M. T.									17 hrs. I. S. T.								
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the month or year.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month or year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													KASHGAR* (Eastern Turkistan)
7·6	+2·5	...	0·07	-0·10	0·03	16	0	-0·8	0·9	+0·4	1	0	2	0	0	0	0	0	27	...	...	...	...	...	...	...	...	...	January
5·5	+0·9	...	0	-0·17	0	...	0	-0·5	1·1	+0·3	0	2	0	1	0	0	1	1	23	...	...	...	...	...	...	...	...	...	February
5·9	+1·1	...	0·17	-0·14	0·10	30	1	+0·3	1·9	+0·3	2	0	4	0	1	1	3	0	20	...	...	...	...	...	...	...	...	...	March
4·5	-0·1	...	0·01	-0·23	0·01	4	0	-0·9	2·5	+0·2	6	1	1	0	1	1	2	1	17	...	...	...	...	...	...	...	...	...	April
4·8	+1·5	...	1·58	+0·93	0·38	23	3	+1·8	2·1	-0·4	4	5	2	2	1	0	3	3	11	...	...	...	...	...	...	...	...	...	May
5·0	+2·6	...	1·00	+0·73	0·62	15	4	+3·2	2·7	-0·2	8	1	0	2	0	0	4	3	12	...	...	...	...	...	...	...	...	...	June
5·1	+2·3	...	0	-0·24	0	...	0	-0·8	1·8	-1·0	0	3	1	1	0	0	5	2	19	...	...	...	...	...	...	...	...	...	July
3·9	+0·4	...	0·33	-0·20	0·30	1	1	0·6	1·6	-0·4	1	2	1	3	0	0	5	0	19	...	...	...	...	...	...	...	...	...	August
4·1	+1·6	...	0·24	-0·03	0·21	11	1	+0·3	1·8	+0·4	5	4	2	1	0	1	1	1	15	...	...	...	...	...	...	...	...	...	September
3·3	+1·0	...	0	-0·02	0	...	0	-0·1	1·2	+0·2	0	2	1	0	0	0	3	2	23	...	...	...	...	...	...	...	...	...	October
6·2	+3·5	...	0·20	+0·05	0·20	4	1	-0·1	1·0	+0·4	2	1	3	1	2	0	0	2	19	...	...	...	...	...	...	...	...	...	November
6·5	+2·2	..	0·17	+0·03	0·05	10	0	-0·4	1·2	+0·7	1	3	2	1	1	0	2	0	21	..	...	...	...	...	...	...	...	...	December
5·2	+1·6	...	3·77	+0·61	0·88	V	11	+1·4	1·7	+0·1	30	24	19	12	6	3	29	15	226	...	...	...	...	...	...	...	...	...	*Year*
																													Kabul (Afghanistan)
5·8	...	...	1·99	...	0·41	30	7	...	1·1	...	2	1	0	0	11	11	3	3	0	...	...	...	...	...	...	...	...	...	January
5·1	...	...	1·16	...	0·25	13	6	...	1·9	...	2	1	0	1	10	10	1	3	0	...	...	...	...	...	...	...	...	...	February
4·1	...	...	2·09	...	0·72	23	5	...	2·0	...	1	1	0	2	12	11	2	2	0	...	...	...	...	...	...	...	...	...	March
4·2	...	...	3·76	...	1·13	13	6	...	1·1	...	3	2	1	2	10	9	0	3	0	...	...	...	...	...	...	...	...	...	April
2·5	...	...	0·43	...	0·10	4	1	...	1·6	...	3	2	1	4	12	8	0	1	0	...	...	...	...	...	...	...	...	...	May
1·4	...	...	1·27	...	0·60	14	2	...	1·2	...	3	4	5	4	8	4	1	1	0	...	...	...	...	...	...	...	...	...	June
0·2	...	...	0·03	...	0·03	10	0	...	1·1	...	5	7	3	4	7	5	0	0	0	...	...	...	...	...	...	...	...	...	July
0·6	...	...	0	...	0	...	0	...	0·8	...	5	4	4	6	6	4	0	2	0	...	...	...	...	...	...	...	...	...	August
0·5	...	...	0	...	0	...	0	...	0·9	...	3	2	2	3	9	8	1	2	0	...	...	...	...	...	...	...	...	...	September
1·3	...	...	0	...	0	...	0	...	1·3	...	2	1	0	2	12	12	0	2	0	...	...	...	...	...	...	...	...	...	October
4·0	...	...	0·42	...	0·30	25	2	...	1·1	...	2	2	1	3	6	8	5	3	0	...	...	...	...	...	...	...	...	...	November
3·9	...	...	0·27	...	0·19	24	1	...	1·2	...	3	1	0	1	11	12	2	1	6	...	...	...	...	...	...	...	...	...	December
2·8	...	...	11·42	...	1·13	IV	30	...	1·3	...	34	28	17	32	114	102	15	23	0	...	...	...	...	...	...	...	...	...	*Year*
																													†**HINAIDI** (Baghdad) 0 hrs. (G. M. T.) (IRAQ)
3·3	...	...	0·06	...	0·03	16	0	...	...	...	4	0	1	6	3	0	5	3	4	...	...	...	...	...	...	...	...	...	January
3·5	...	...	0·70	...	0·52	19	1	...	...	..	5	1	3	5	1	2	5	5	1	...	...	...	...	...	...	...	...	...	February
3·7	...	...	0·05	...	0·05	16	0	...	...	...	7	2	2	6	2	0	6	6	0	...	...	...	...	...	...	...	...	...	March
2·3	...	...	0·33	...	0·33	22	1	...	...	...	5	1	1	2	2	3	5	11	1	...	...	...	...	...	...	...	...	...	April
2·2	...	...	0·78	...	0·77	13	1	...	...	...	10	2	3	1	2	0	7	6	0	...	...	...	...	...	...	...	...	...	May
0·2	...	...	0	...	0	...	0	...	...	...	2	3	0	0	0	1	6	18	0	...	...	...	...	...	...	...	...	...	June
0	...	...	0	...	0	...	0	...	...	...	7	0	0	0	0	0	2	22	0	...	...	...	...	...	...	...	...	...	July
0·1	...	...	0	...	0	...	0	...	...	...	5	0	0	0	0	0	2	24	0	...	...	...	...	...	...	...	...	...	August
0·4	...	...	0	...	0	...	0	...	...	...	6	2	0	0	0	2	4	14	2	...	...	...	...	...	...	...	...	...	September
3·4	...	...	0·01	...	0·01	31	0	...	...	...	7	5	0	3	1	0	4	10	1	...	...	...	...	...	...	...	...	...	October
4·8	...	...	1·43	...	0·66	18	5	...	...	...	10	3	2	4	2	1	2	6	0	...	...	...	...	...	...	...	...	...	November
3·7	...	...	3·81	...	1·11	28	4	...	...	...	4	2	4	3	2	1	8	7	0	...	...	...	...	...	...	...	...	...	December
2·3	...	...	7·17	...	1·11	XII	12	...	...	...	72	21	16	30	15	9	56	137	9	...	...	...	...	...	...	...	...	...	*Year*

TABLE II-A.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION AND MONTH.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches. Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Maximum temperature °F. Mean.	Departure from normal.	Highest.	Date.	Minimum temperature °F. Mean.	Departure from normal.	Lowest.	Date.	Dry bulb temperature °F. Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Wet bulb temperature °F. Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Vapour pressure, inches. Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Relative humidity, % Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
*ABADAN 9 hrs. (L. M. T.) (PERSIA—IRAN)	10																					
January	...	30·150	...	...	68·7	...	71	6	43·7	...	32	13	51·9	...	48·1	...	·281	...	...	73	...	...
February	...	30·032	...	...	66·3	...	73	18	48·4	...	39	7	56·5	...	52·1	...	·328	...	...	72	...	...
March	...	29·966	...	...	81·0	...	86	8, 29	57·5	...	47	1	69·0	...	58·4	...	·342	...	...	49	...	...
April	...	29·890	...	...	86·9	...	103	30	63·2	...	55	5	75·9	...	61·1	...	·336	...	...	37	...	...
May	...	29·801	...	...	99·9	...	107	7, 8, 18	74·3	...	68	18	89·7	...	69·5	...	·439	...	...	32	...	...
June	...	29·580	...	...	110·1	...	117	30	79·8	...	73	1	98·4	...	70·2	...	·358	...	...	20	...	...
July	...	29·455	...	...	113·9	...	122	28	82·9	...	76	6, 7	98·1	...	71·2	...	·394	...	...	22	...	...
August	...	29·539	...	...	113·5	...	120	5	83·3	...	75	27	96·2	...	73·1	...	·500	...	...	29	...	...
September	...	29·685	...	...	110·3	...	117	3	75·2	...	68	30	92·7	...	70·5	...	·461	...	...	30	...	...
October	...	29·909	...	...	98·4	...	105	1, 6, 10	67·2	...	56	26	82·5	...	65·6	...	·410	...	...	36	...	...
November	...	30·052	...	...	78·2	...	92	5, 7	57·5	...	39	25	66·9	...	60·5	...	·449	...	...	67	...	...
December	...	30·134	...	...	66·5	...	81	1	51·9	...	42	24, 31	57·6	...	55·5	...	·406	...	...	87	...	...
Year	...	29·850	...	...	90·7	...	122	VII	65·4	...	32	I	77·9	...	63·0	...	·392	...	...	46	...	...

* Pressure reduced to M. S. L.

HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR EACH MONTH AND THE YEAR 1935.

Cloud amount, (tenths of sky.)			Rainfall, inches.				Number of rainy days. (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																				STATION AND MONTH.
											8 hrs. L. M. T.									17 hrs. I. S. T.											
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the month or year.	Departure from normal.	Heaviest fall in 24 hrs.	Date.	Total in the month or year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													*ABADAN 9 hrs. (L.M.T.) (PERSIA—IRAN)
3·0	...	...	0·50	...	0·16	26	2	...	7·1	...	0	3	1	4	1	2	4	15	1	...	...	...	...	...	...	...	...	...	January
2·3	...	...	1·98	...	1·26	3	2	...	6·6	...	1	0	1	5	1	3	4	12	1	...	...	...	...	...	...	...	...	...	February
3·3	...	...	0·51	...	0·38	30	1	...	7·5	...	1	3	2	7	2	0	2	13	1	...	...	...	...	...	...	...	...	...	March
2·2	...	...	0·53	...	0·48	22	1	...	7·6	...	0	4	2	2	0	8	2	11	1	...	...	...	...	...	...	...	...	...	April
2·7	...	...	0·94	...	0·76	13	2	...	7·8	...	2	0	0	3	0	5	2	18	1	...	...	...	...	...	...	...	...	...	May
0	...	...	0	...	0	...	0	...	8·1	...	2	2	1	2	1	5	5	11	1	...	...	...	...	...	...	...	...	...	June
1·3	...	...	0	...	0	...	0	...	10·5	...	2	0	0	0	0	3	5	20	1	...	...	...	...	...	...	...	...	...	July
1·1	...	...	0	...	0	...	0	...	7·7	...	1	1	0	3	2	4	6	13	1	...	...	...	...	...	...	...	...	...	August
0	...	...	0	...	0	...	0	...	5·6	...	2	1	0	3	2	3	9	9	1	...	...	...	...	...	...	...	...	...	September
1·4	...	...	0	...	0	...	0	...	5·4	...	4	1	0	1	1	8	8	8	0	...	...	...	...	...	...	...	...	...	October
6·1	...	...	0·55	...	0·20	13,18	2	...	6·1	...	3	3	1	5	1	1	4	10	2	...	...	...	...	...	...	...	...	...	November
5·0	...	...	4·18	...	1·32	8	6	...	4·9	...	4	3	2	2	1	2	8	9	0	...	...	...	...	...	...	...	...	...	December
2·4	...	...	9·19	...	1·32	XII	16	...	7·1	...	22	21	10	37	12	44	59	149	11	...	...	...	...	...	...	...	...	...	Year

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperatur · °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity, %.		
		Mean 4 hrs.	Departure from normal.	Mean 12 hrs.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Departure from normal.	Mean 12 hrs.	Mean 4 hrs.	Departure from normal.	Mean 12 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Baluchistan																						
Ormara	15	29·805	...	29·711	84·8	...	105	V	70·4	...	41	I	76·2	81·9	70·6	72·8	·686	...	·699	74	...	62
Pasni	10	29·813	...	29·726	85·8	−0·7	108	VI	68·1	+1·3	39	I	74·1	82·1	68·6	72·7	·652	...	·694	74	...	61
Panjgur	3,177	26·675	...	26·590	86·3	+1·0	110	VI	58·2	+1·2	21	I	67·3	82·9	55·9	61·5	·348	...	·321	48	...	28
Gwadar	22	29·781	...	29·697	85·1	...	106	VI	70·1	...	39	I	75·6	81·9	71·8	74·3	·741	...	·756	82	...	68
Persia (Iran)																						
Charbar	25	29·810	...	29·727	84·8	...	103	VII	71·1	...	46	I	78·2	81·6	72·5	76·3	·741	...	·851	75	...	77
Jask	13	29·807	...	29·739	87·3	+0·6	106	VII	73·1	−0·1	50	I	78·1	84·7	71·0	76·3	·684	...	·777	69	...	63
Henjam	100	29·715	...	29·629	85·3	...	107	VI, VII	73·9	...	52	I	79·3	83·5	73·0	73·7	·759	...	·721	73	...	61
Bushire	14	29·788	...	29·747	...	...	...	...	69·7	+1·2	42	I	73·6	80·7	68·1	73·2	·646	...	·754	75	...	68
Ispahan	5,817	24·31*	...	24·28*	...	...	...	...	45·7	−0·3	12	I	53·6	71·5	44·3	51·6	·215	...	·190	52	...	27
Meshed	3,104	...	...	...	72·4	+2·7	101	VII, VIII	41·6	−2·0	−3	I	53·5	67·3	45·0	52·5	·226	...	·247	58	...	39
Seistan	2,000	28·246	...	28·154	82·3	+0·3	112	VII	56·5	+0·5	17	I	65·0	78·9	54·9	61·9	·331	...	·378	54	...	37
Arabia																						
Bahrein	8	29·821	...	29·778	86·3	+3·1	110	VII	72·5	+0·4	48	I	76·7	83·4	71·7	74·3	·743	...	·747	79	...	66
†Baitul Fatal (Muscat)	72	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
†Muscat	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sharjah	18	29·806	...	29·749	88·8	...	112	VI, IX	67·9	...	45	I	73·9	84·5	66·8	73·7	·585	...	·711	69	...	58

* Aneroid.
† Data not available for complete year, hence no annual means.

TABLE III-A.—ABSTRACT OF OBSERVATIONS RECORDED

STATION AND MONTH.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature. °F.				Minimum temperature °F.				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure, inches.			Relative humidity, %.		
		Mean 4 hrs.	Departure from normal.	Mean 12 hrs.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Departure from normal.	Mean 12 hrs.	Mean 4 hrs.	Departure from normal.	Mean 12 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
*Tehran Persia (Iran)	4,002																					
January		26·05		25·99	43·8	−0·7	55	7	24·5	−2·9	14	23, 24	34·0	39·9	29·3	34·2	·113		·133	59		55
February		25·93		25·88	53·8	+3·6	61	14	32·6	+1·0	26	8	40·5	49·9	35·4	41·7	·140		·175	59		49
March		26·00		25·93	63·6	+4·5	75	5	41·0	+1·7	28	22	51·5	60·7	42·5	47·2	·174		·167	45		31
April		26·01		25·95	70·5	−0·2	82	30	47·6	−1·1	33	27	60·8	67·8	49·5	52·7	·215		·229	41		34
May		26·12		26·04	81·1	−1·2	88	4 days	56·1	−2·2	47	27	70·8	77·7	57·6	60·0	·331		·314	44		33
June		26·00		25·89					62·1	−4·3	53	13	75·2	87·4	59·9	62·6	·338		·285	38		22
July		25·95		25·86					67·6	−4·1	54	5	84·4	16·0	62·9	65·8	·325		·289	28		17
August		26·01		25·89					68·5	−2·5	63	4 days	80·9	96·7	61·9	66·5	·335		·311	32		18
September		26·08		26·03					60·8	−2·8	55	6 days	76·2	87·7	59·8	64·8	·326		·349	36		26
October		26·18		26·16					51·4	−1·2	43	5 days	65·1	75·1	52·4	57·4	·244		·263	40		31
November		25·93		25·94					40·1	−2·1	28	25	48·1	56·9	43·1	48·9	·208		·255	60		55
December		25·89		25·90					32·3	−0·9	25	14, 30	39·0	47·7	36·0	42·7	·177		·220	75		66
Year		26·03		25·95					48·8	−1·7	14	1	60·5	70·3	49·2	53·7	·244		·249	46		36

* Aneroid barometer in use.

AT 4 AND 12 HRS. (G. M. T.) FOR THE YEAR 1935.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days. (0·10 or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from.																				STATION.
											4 hrs.									12 hrs.											
Mean 4 hrs.	Departure from normal.	Mean 12 hrs.	Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Baluchistan
3·7	...	2·0	12·53	...	3·33	I	9	...	8·9	...	8	26	36	15	4	68	96	28	84	3	7	18	18	36	142	129	8	4	Ormara.
4·0	...	2·8	10·10	+3·96	2·78	I	14	+5·8	5·8	−0·3	14	18	25	14	2	22	66	46	158	8	3	11	26	43	157	113	2	2	Pasni.
1·7	...	2·1	5·72	+1·03	1·40	IV	13	+3·6	5·3	+0.6	47	100	73	7	15	23	28	14	58	97	28	3	3	28	57	48	89	12	Panjgur.
4·0	...	2·6	5·85	...	1·38	I	11	...	5·9	...	16	45	53	31	10	24	92	28	66	5	1	20	33	91	164	41	4	6	Gwadar.
																													Persia (Iran)
2·2	...	1·5	5·68	...	2·43	I	8	...	6·5	...	13	57	92	39	18	10	31	54	48	7	6	12	73	118	100	25	19	0	Charbar.
2·3	...	2·0	7·65	+3·04	2·29	II	10	+0·8	9·5	+1·5	68	43	122	13	4	5	31	44	35	4	2	16	53	72	96	85	37	0	Jask.
2·0	...	2·0	5·12	...	2·17	II	7	...	5·5	...	50	80	57	8	0	34	35	21	59	3	8	26	41	5	135	100	3	21	Henjam.
1·7	...	1·5	14·69	+4·01	2·83	XII	23	+4·8	8·1	+2·3	81	102	59	44	18	8	2	44	7	29	4	5	20	15	56	89	146	1	Bushire.
2·7	...	3·8	4·42	−0·09	0·84	IV	14	+0·9	2·6	+0·4	9	6	3	10	13	45	41	30	198	38	49	47	21	23	53	43	42	49	Ispahan.
3·5	...	3·4	7·18	−2·04	1·08	III	21	−2·6	...	...	0	8	0	19	6	0	6	6	320	6	73	11	46	2	0	13	9	205	Meshed.
1·6	...	1·7	1·76	−0·26	0·26	I	7	−0·1	7·5	−0·8	148	23	7	4	0	1	5	136	42	145	28	19	2	2	1	2	119	47	Seistan.
																													Arabia
2·6	...	2·4	2·95	−0·03	1·25	II	6	−1·0	7·6	...	37	5	9	16	5	9	61	61	162	144	48	35	24	3	1	3	73	34	Bahrein.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	†Baitul Falaj (Muscat).
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	†Muscat
2·3	...	2·1	4·40	...	2·51	II	5	...	7·0	...	2	11	16	103	134	7	14	3	68	51	3	1	2	4	16	147	134	0	Sharjah.

AT 4 AND 12 HRS. (G. M. T.) FOR EACH MONTH AND THE YEAR 1935.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days. (0·10 or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																				STATION AND MONTH.
											4 hrs.									12 hrs.											
Mean 4 hrs.	Departure from normal.	Mean 12 hrs.	Total of the month or year.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month or year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm.	N	NE	E	SE	S	SW	W	NW	Calm.	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													*Tehran. Persia (Iran).
2·0		2·6	1·49	−0·16	0·71	19	4	−0·3	1·0	−1·1	1	0	0	0	0	0	0	0	30	1	0	0	0	1	0	1	1	27	January.
3·5		4·3	1·53	+0·39	0·59	23	4	+0·6	1·1	−1·6	1	1	0	0	0	0	1	1	24	1	0	1	0	0	3	2	1	20	February.
3·2		4·8	1·72	−0·24	0·98	17	4	−1·5	1.5	−1·5	0	0	0	0	1	0	0	1	29	0	1	0	0	0	4	4	2	20	March.
2·2		4·3	0·61	−0·76	0·29	12	3	−0·5	1·0	−2·2	0	0	0	0	0	1	1	0	28	1	0	1	0	3	1	2	0	22	April.
3·1		3·4	1·59	+1·02	0·53	21	3	+0·8	0 8	−2·2	0	0	0	0	1	1	0	0	29	1	2	0	0	1	1	1	0	25	May.
2.1		1·7	0·57	+0·49	0·20	8	4	+3·7	1·1	−1·4	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	1	29	June.
0·3		0·5	0	−0·15	0	...	0	−0·4	0·9	−1·1	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	31	July.
0·2		0·1	0	−0·04	0	...	0	−0·2	0·8	−1·2	0	0	0	0	0	0	0	0	31	0	0	0	2	2	0	0	1	26	August.
0·3		0·6	0·13	+0·05	0·13	1	1	+0·7	0·3	−2·0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	1	0	0	29	September.
1·4		0·9	0	−0·32	0	...	0	−1·0	0·5	−1·9	0	0	0	0	0	0	0	0	31	1	0	0	0	1	1	0	0	28	October.
6·0		4·9	2·56	+1·68	0·80	12,18	5	+2·5	0·2	−1·8	0	0	0	0	0	0	0	0	30	0	0	0	0	1	1	0	0	28	November.
3·3		4·5	1·20	−0·03	0·41	19	5	+·12	0·1	−1·9	1	0	0	0	0	0	0	0	30	0	0	0	0	0	2	1	0	28	December.
2·3		2·7	11·40	+1·93	0·98	III	33	+5·6	0 8	−1·6	3	1	0	0	2	2	2	2	353	5	3	2	2	9	14	11	6	313	Year.

TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. (L. M. T.) AT 4TH CLASS STATIONS FOR THE YEAR 1935.

STATION.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature 8 hrs. L. M. T. °F.	Mean wet bulb temperature 8 hrs. L. M. T. °F.	Vapour pressure, inches.		Relative humidity, %.		Mean cloud amount 8 hrs. L. M. T.	Rainfall, inches.				Number of rainy days. 0·10" or more.		Wind.	
	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.			Mean 8 hrs. L. M. T.	Departure from normal.	Mean 8 hrs. L. M. T.	Departure from normal.		Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.	Resultant direction 8 hrs. L. M. T.	Velocity in miles per hour.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Assam																							
Lumding	84·1	—0·4	97	IV, V	64·8	+0·3	40	I	70·2	67·5	·665	...	87	...	...	55·79	+4·67	3·15	VII	74	—11·5	...	...
Messa (Salona)	86·5	—1·6	99	IV	55·0	+2·1	40	I	70·7	68·3	·687	...	88	...	...	83·54	+0·44	3·30	VII	107	—3·3	...	...
Bengal																							
Brahmanbaria	88·1	+1·2	99	V	68·0	+0·4	49	I	76·2	72·4	·772	+·033	82	+2	...	56·13	—26·31	6·05	IV	84	—15·1	...	...
Goalundo	88·3	+1·5	100	V	67·7	+0·4	43	I, XII	76·0	72·1	·763	+·014	82	+2	...	50·31	—17·77	3·88	VIII	66	—25·8	...	...
Pabna	89·6	+0·9	108	V	68·6	+0·8	45	XII	75·3	71·5	·755	+·004	82	+1	...	43·75	—17·21	3·25	VII	76	—8·0	...	...
Punjab East and North																							
Gurdaspur	86·2	...	113	V, VI, VII	60·3	...	29	I	68·3	61·3	·485	...	69	...	2·8	31·31	...	3·25	VII	43	...	...	...
Kashmir																							
Jammu	84·0	—0·8	113	VI	65·9	+0·8	36	I	71·0	60·3	·410	—·364	53	—6	3·8	40·67	—2·27	2·64	VII	53	+2·2	...	...
Kargil	55·5	—4 4	91	VII	35·9	+3·7	—6	I	38·7	...	...	...	...	...	...	8·89	—0·28	1·04	V	27	+5·7	...	...
N.-W.F. Province																							
Bannu	86·4	...	118	VI	62·2	...	31	I	72·4	60·5	·403	...	50	...	3·1	13·24	...	1·24	VIII	33	...	...	...
Razmak	65·4	...	93	VI	45·9	...	11	I	52·8	44·1	·222	...	55	...	...	22·12	...	1·50	IV	55	...	...	...
Wana	76·5	...	106	VII	48·8	...	15	I	58·1	49·1	·281	...	57	...	...	13·93	...	1·12	IV	38	...	...	...
Bombay Deccan																							
Panchgani	76·4	...	95	V	61·7	...	49	I	68·0	59·3	·410	...	63	...	4·4	70·57	...	4·38	IX	95	...	...	8·3
Hyderabad, North																							
Bida	87·7	—1·0	109	V	59·3	+1·3	56	I	75·3	65·6	·509	—·074	60	—5	4·5	38·94	+1·19	2·87	X	51	—3·4	...	7·0
Mysore																							
Jogimatti*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tibet																							
Yatung (Chumbi)	56·7	+1·4	72	VIII	32·9	—3·5	—5	I	40·1	39·1	·255	—·002	93	+7	5·1	37·85	—5·05	2·35	IX	102	—3·6	...	...
Persia (Iran)																							
†Zahidan	...	...	104	VIII	45·4	...	10	I, XII	62·3	...	...	...	...	...	...	3·15	...	0·55	II	12	...	...	...

* Data not available for complete year, hence no annual means.
† Records observations at 7 hrs. (L.M.T.)

TABLE V.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. (L. M. T.) AT 5TH CLASS STATIONS FOR THE YEAR 1935.

DIVISION.	STATION.	Rainfall, inches.				Number of rainy days, (0·10 or more)		DIVISION.	STATION.	Rainfall, inches.				Number of rainy days, (0·10 or more)	
		Total of the year.	Departure from normal.	Heaviest fall in 24 hours	Month.	Total in the year.	Departure from normal.			Total of the year.	Departure from normal.	Heaviest fall in 24 hours.	Month.	Total in the year.	Departure from normal.
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
Bengal	Bankura	37·21	—19·79	3·53	VIII	62	—12·3	Kashmir	Sonamarg	81·92	+10·53	3·96	III	105	—0·5
	Rampur Boalia	45·84	—10·26	4·10	VI	72	—2·6		Gurez	37·74	...	3·80	V	101	...
	Sirajganj	41·92	—22·47	3·24	VIII	73	—9·8	Baluchistan	Harnai	9·80	—3·54	1·28	II	25	+1·1
	Rangpur	113·31	+31·28	8·75	IX	62	—21·2		Pishin	12·31	+3·5	1·70	II	30	+9·5
	Cooch Behar	148·82	+1·81	12·07	VI	106	+1·1	Rajputana, East	Udaipur	21·28	—2·50	1·83	VII	36	+3·3
Bihar	Muzaffarpur	50·86	+2·01	6·63	IX	45	—11·9	Bombay, Deccan	Khandala	166·44	...	7·75	IX	110	...
	Chapra	30·08	—14·34	4·53	IX	37	—16·7	Hyderabad, North	Parbhani	34·51	+1·64	2·40	VI	51	+6·3
	Arrah	26·36	—19·26	3·37	VI	35	—21·3	Madras, Southeast	Palamcottah	24·11	—4·23	2·70	IV	35	—6·3
	Dehri	34·42	—8·05	3·80	VIII	45	—9·8	Madras Deccan	Anantapur	21·23	—3·81	3·05	VIII	36	+0·9
United Provinces, West	Meerut	32·40	+0·44	5·36	IX	46	+7·5	Sikkim	Gnatong	139·75	—7·73	3·90	VII	197	+15·1
Punjab, East and North	Dharampore	49·96	...	2·83	VIII	81	...		Lachung	57·86	—7·07	1·66	IX	158	—3·1
	Kallang	25·24	+2·13	2·38	VI	57	+7·8								
	Dalhousie	89·48	+4·98	5·01	VIII	93	+5·1								
	Bakloh	89·36	...	6·15	VIII	81	...								

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 12-30 HRS. (I. S.T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1935.

Station, height of bar. cistern above mean sea level in feet and month.	Pressure reduced to 32° F. and standard gravity inches.			Temperature of air °F.			Wet bulb temperature F.		Vapour pressure. inches.				Relative humidity °/o.				Cloud amount.	Wind direction at 12-30 hrs. (I. S. T.) Number of winds from—								
	Mean 12-30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean 12-30 hrs (I. S. T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 12-30 hrs. (I. S. T.)	From minimum.	Mean 12-30 hrs.(I. S. T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 12-30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean 12-30 hrs. I. S. T.	N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Calcutta (21)																										
January	29·990	29·993	+·030	75·7	65·2	0	54·0	62·8	·403	·405	·428	−·003	89	45	71	+1	1·9	7	5	4	2	1	2	3	6	1
February	29·880	29·874	−·028	82·2	72·6	+2·3	61·1	67·9	·514	·499	·543	+·058	86	46	71	+5	2·7	4	2	1	0	4	10	3	4	0
March	29·802	29·794	−·007	90·2	80·7	+1·4	67·1	72·6	·625	·573	·642	−·001	82	41	65	−2	2·4	3	3	2	1	6	5	5	3	0
April	29·713	29·704	+·008	94·0	84·6	−0·4	71·0	76·2	·702	·669	·740	—·057	79	43	66	−4	2·6	3	1	2	1	3	8	6	6	0
May	29·567	29·561	−·045	98·2	90·3	+4·6	77·2	81·8	·880	·863	·893	+·010	82	48	67	−8	2·2	1	0	2	0	14	13	1	0	0
June	29·501	29·500	+·006	93·1	87·8	+3·3	77·7	82·3	·905	·956	·949	−·022	86	62	77	−6	6·5	0	1	1	0	12	12	1	1	2
July	29·430	29·431	−·054	88·2	84·8	+1·8	78·3	81·5	·945	·982	·972	+·001	93	74	84	−3	8·6	0	2	7	8	5	4	1	0	4
August	29·585	29·583	+·047	87·0	83·6	+1·2	77·2	80·6	·914	·957	·952	−·015	93	75	85	−3	8·6	0	0	4	2	6	14	3	0	2
September	29·585	29·589	−·048	87·9	84·0	+1·4	77·7	80·9	·926	·959	·956	+·004	93	73	83	−3	7·6	3	0	3	5	4	6	4	4	1
October	29·756	29·765	−·020	89·9	81·9	+1·9	71·5	75·5	·746	·693	·748	−·068	89	50	71	−11	3·7	7	5	1	0	0	2	5	8	3
November	29·874	29·891	−·018	85·4	74·1	+1·7	61·1	68·3	·510	·466	·520	−·058	87	38	66	−8	1·4	11	0	1	1	1	1	2	11	2
December	29·939	29·956	−·017	79·3	67·4	+2·1	54·4	64·0	·398	·394	·426	−·012	86	39	66	−5	2·0	11	3	1	0	2	0	2	10	2
Year	29·719	29·720	−·012	87·6	79·7	+1·1	69·0	74·5	·706	·701	·731	—·013	87	53	73	−4	4·2	50	22	29	23	55	77	36	53	17
Agra (554)																										
January	29·483	29·462	+·023	66·3	54·7	−3·6	...	53·1	...	·235	·246	...	...	36	56	...	2·6	5	3	3	2	2	3	5	8	0
February	29·366	29·339	−·044	74·5	63·4	+0·9	...	59·5	...	·312	·321	...	...	38	53	...	2·0	2	0	4	1	1	3	8	9	0
March	29·304	29·274	−·001	87·7	73·0	−0·6	...	60·6	...	·170	·211	...	...	18	28	...	1·9	2	0	2	1	2	9	8	7	0
April	29·213	29·180	+·035	91·7	79·3	−6·5	...	63·9	...	·224	·269	...	...	17	27	...	2·3	7	0	3	3	4	1	8	4	0
May	29·028	28·998	−·036	106·1	92·3	0	...	68·5	...	·194	·239	...	...	9	17	...	1·6	0	0	0	0	3	5	15	8	0
June	28·912	28·884	−·037	105·8	96·0	+2·7	...	74·2	...	·423	·475	...	...	20	29	...	2·7	2	2	1	1	0	4	17	3	0
July	28·890	28·868	−·041	90·6	86·5	+0·8	...	80·2	...	·889	·909	...	...	65	75	...	8·9	5	5	2	5	1	2	5	5	1
August	29·027	28·998	+·025	88·8	83·1	−0·7	...	78·6	...	·838	·835	...	...	64	72	...	8·0	6	1	2	3	1	3	5	8	2
September	29·067	29·044	−·052	89·3	82·8	−0·4	...	77·7	...	·795	·816	...	...	58	71	...	5·3	2	5	5	2	0	2	7	6	1
October	29·277	29·258	−·016	90·7	75·6	−0·7	...	66·4	...	·328	·379	...	...	24	41	...	1·4	2	1	0	1	0	5	8	14	0
November	29·391	29·377	−·019	83·6	67·2	+1·5	...	61·5	...	·253	·301	...	...	22	42	...	0·3	2	0	1	0	0	5	12	10	0
December	29·449 (a)	29·436	−·025	72·0 (a)	58·6	−1·1	...	56·3 (a)	...	·249 (a)	·272	...	...	33 (a)	54	...	2·2 (a)	5	3	2	4	0	4	5	6	1
Year	29·201	29·177	−·015	87·3	76·0	−0·7	...	66·7	...	·409	·439	...	...	33	47	...	3·3	40	20	25	23	14	46	103	88	5
Lahore (702)																										
January	29·359	29·333	+·042	59·8	49·2	−3·3	...	50·5	...	·247	·244	...	...	48	70	...	6·2	4	2	0	1	2	1	2	9	10
February	29·254	29·225	−·021	66·1	58·3	+1·5	...	57·6	...	·362	·361	...	...	58	74	...	5·6	6	1	2	1	0	2	4	10	2
March	29·188	29·154	+·022	79·6	68·3	+0·4	...	62·1	...	·328	·343	...	...	33	49	...	3·6	4	1	2	2	1	1	1	15	4
April	29·103	29·066	+·066	82·6	72·5	−7·1	...	64·0	...	·351	·387	...	...	35	48	...	4·5	7	3	2	3	1	0	0	7	7
May	28·898	28·864	−·006	100·7	87·2	−0·2	...	70·6	...	·347	·393	...	...	18	31	...	1·8 (b)	4	1	1	2	0	0	0	12	11
June	28·763	28·725	−·012	104·5	92·1	+0·4	...	73·5	...	·414	·432	...	...	20	29	...	1·1	3	2	0	2	2	1	1	9	10
July	28·748	28·715	−·018	94·8	89·2	+1·0	...	81·3	...	·883	·877	...	...	57	64	...	4·5	0	3	4	6	4	0	0	2	12
August	28·866	28·829	+·030	91·9	86·0	−0·4	...	80·6	...	·891	·897	...	...	61	72	...	5·9	0	0	5	7	0	1	0	3	15
September	28·924	28·888	−·049	94·3	84·9	+0·8	...	77·0	...	·698	·693	...	...	44	58	...	1·7	0	0	0	3	1	0	0	8	17
October	29·135	29·105	−·009	88·9	75·1	+0·1	...	67·4	...	·384	·413	...	...	28	49	...	0·6	0	0	1	3	1	1	2	1	22
November	29·261	29·241	−·010	77·7	64·4	+1·9	...	62·5	...	·368	·394	...	...	39	67	...	2·8	3	1	0	1	0	1	2	14	8
December	29·328	29·306	−·014	67·0	54·3	0	...	55·3	...	·283	·280	...	...	43	68	...	2·4	2	3	1	2	0	0	8	11	4
Year	29·069	29·038	+·002	84·0	73·5	−0·4	...	66·9	...	·463	·476	...	...	40	57	...	3·4	33	17	18	33	12	8	20	101	122

(a) Mean of 30 days.
(b) Mean of 29 days.

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 12-30 HRS. (I. S. T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1935.

Station, height of bar. cistern above mean sea level in feet and month.	Pressure reduced to 32 °F. and standard gravity, inches.			Temperature of air, °F.			Wet bulb temperature, °F.		Vapour pressure, inches.				Relative humidity, %.				Cloud amount.	Wind direction at 12-30 hrs. (I. S. T.) Number of winds from—								
	Mean 12-30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean 12-30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 12-30 hrs. (I. S. T.)	From minimum.	Mean 12-30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 12-30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean 12-30 hrs. (I. S. T.)	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Srinagar* (5,205)																										
January	25·035	25·013	+·054	34·3	30·9	+0·2	...	32·5	...	·164	·155	...	...	84	93	...	9·1	4	2	0	5	3	0	3	6	
February	25·034	25·004	+·099	42·7	38·2	+5·2	...	39·7	...	·209	·200	..	...	77	88	...	8·0	1	0	0	3	3	5	4	2	
March	25·036	25·009	+·137	53·8	47·8	+2·4	...	47·2	...	·250	·243	...	...	61	75	...	5·5	3	0	0	3	4	4	4	11	
April	24·968	24·943	+·091	56·8	50·9	—4·9	...	50·2	...	·293	·284	...	...	65	76	...	6·0	4	3	2	2	0	2	6	11	
May	24·915	24·897	+·115	71·6	63·6	—0·5	...	60·2	...	·389	·388	...	...	51	64	...	3·6	0	1	0	1	1	4	8	9	
June	24·833	24·813	+·149	76·3	67·1	—3·5	...	62·4	...	·404	·400	...	...	47	58	...	3·6	1	1	0	5	2	4	8	2	
July	24·722	24·698	+·100	81·0	74·6	+1·1	...	69·3	...	·581	·569	...	...	56	65	...	4·6	1	3	2	0	4	4	4	5	
August	24·790	24·768	+·132	78·1	72·0	+0·6	...	68·4	...	·585	·550	...	...	61	70	...	5·4	1	4	0	3	2	3	2	3	
September	24·853	24·827	+·056	76·0	66·7	+1·1	...	62·1	...	·399	·390	...	...	46	62	...	2·3	6	3	1	0	2	0	3	4	
October	...	...	...	64·2	54·4	—0·3	...	54·1	...	·305	·289	...	...	51	70	...	2·7	2	5	0	0	1	0	2	8	
November	25·024	25·005	+·041	52·0	44·4	—0·7	...	45·9	...	·244	·227	...	...	65	82	...	5·8	3	4	0	0	2	0	6	7	
December	24·990	24·982	—·007	43·1	37·1	+0·7	...	39·0	...	·192	·174	..	...	69	83	...	6·0	1	6	1	1	1	0	3	12	
Year	...	...	...	60·8	54·0	+0·1	...	52·6	...	·335	·322	...	...	61	74	...	5·2	27	32	6	23	25	26	53	80	
Peshawar (1,164)																										
January	28·916	28·887	+·022	54·5	46·2	-4·3	...	46·9	...	·225	·210	...	...	54	68	...	6·9	5	4	4	8	2	2	3	2	1
February	28·812	28·779	-·030	63·1	55·2	+1·2	...	53·2	...	·275	·281	...	...	49	65	...	5·1	2	4	6	7	5	1	0	1	2
March	28·761	28·726	-·001	73·0	64·0	+0·6	...	58·9	...	·312	·329	...	...	40	56	...	5·6	13	3	4	2	2	0	0	4	3
April	28·679	28·647	+·037	74·0	66·6	—6·8	...	61·7	...	·391	·409	...	...	50	60	...	5·7	8	6	3	2	0	1	4	2	4
May	28·480	28·448	—·013	93·2	83·0	-0·2	...	67·7	...	·339	·379	...	...	22	34	...	3·0	10	5	3	2	2	4	2	2	1
June	28·331	28·300	-·002	99·0	89·3	-1·0	...	70·2	...	·353	·409	...	...	20	30	...	2·4	12	7	6	0	2	0	1	2	0
July	28·278	28·240	-·032	95·7	80·2	-0·4	...	73·0	...	·727	·734	...	...	45	53	...	3·3	6	8	14	2	0	0	0	1	
August	28·308	28·360	+·018	89·1	84·1	-3·0	...	77·5	...	·788	·797	...	...	58	68	...	4·9	9	13	6	0	0	0	1	1	1
September	28·469	28·431	-·068	90·5	81·8	-0·1	...	72·3	...	·558	·546	...	...	39	52	...	1·4	9	7	6	4	0	1	0	1	2
October	28·697	28·669	-·021	81·7	70·3	-2·0	...	62·7	...	·317	340	...	...	30	47	...	2·5	9	5	6	3	1	0	0	4	3
November	28·813	28·791	-·024	73·0	61·1	+0·7	...	57·9	...	·284	·292	...	...	35	56	...	3·6	5	6	2	5	1	1	2	2	6
December	28·875	28·851	-·031	61·9	50·1	—1·7	...	49·4	...	·189	·191	...	...	35	56	...	4·9	7	3	2	1	3	4	1	1	9
Year	28·625	28·594	-·013	79·1	70·1	—1·4	...	63·0	...	·397	·410	...	...	40	54	...	4·0	95	71	62	36	18	14	14	22	33
Drigh Road (Karachi) (77)																										
January	30·004	29·970	...	69·5	60·7	...	...	52·9	...	·18	·183	...	...	26	37	...	3·3	5	16	2	2	2	1	2	1	0
February	29·895	29·858	...	76·5	68·0	...	...	62·8	...	·394	·426	...	...	44	61	...	2·5	4	5	2	4	2	3	6	2	0
March	29·835	29·797	...	87·3	75·0	...	...	67·2	...	·392	·460	...	...	33	54	...	2·3	4	2	0	1	1	9	9	4	1
April	29·736	29·705	...	88·3	79·0	...	...	71·0	...	·522	·594	...	...	42	61	...	2·5	1	2	2	0	1	7	15	2	0
May	29·615	29·585	...	94·3	85·4	...	...	77·1	...	·696	·741	...	...	46	63	...	1·3	2	0	0	0	0	10	17	2	0
June	29·460	29·443	...	94·3	87·4	...	...	82·6	...	·960	·972	...	...	61	76	...	2·0	0	0	0	0	0	9	17	4	0
July	29·390	29·375	...	89·1	84·6	..	...	81·7	...	·983	·968	...	...	72	81	...	7·9	0	0	0	0	0	10	19	2	0
August	29·526	29·509	...	85·7	80·9	...	...	77·7	...	·849	·840	...	...	68	79	...	7·2	0	0	0	0	0	14	16	1	0
September	29·588	29·569	...	86·9	82·0	...	...	78·5	...	·865	·849	...	...	68	80	...	4·5	0	0	0	0	1	16	13	0	0
October	29·781	29·760	...	91·3	79·0	...	...	69·1	...	·424	·503	...	...	30	51	...	1·1	2	2	4	3	0	6	8	6	0
November	29·895	29·873	...	86·7	75·7	...	...	69·3	...	·491	499	...	...	40	57	...	0·8	1	2	4	1	1	2	12	3	4
December	29·948	29·925	...	78·4	67·8	...	...	62·4	...	·361	·342	...	...	36	49	...	(a) 3·2	8	9	1	2	0	2	3	5	1
Year	29·723	29·697	...	85·7	77·1	...	...	71·0	...	·593	·615	...	...	47	62	...	3·2	27	38	15	13	8	89	137	32	6

*Pressure data from aneroid barometer for January to September.
(a) Mean of 30 days.

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 12-30 HRS. (I. S. T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1935.

Station, height of bar. cistern above mean sea level in feet and month.	Pressure reduced to 32°F and standard gravity, inches.			Temperature of air, °F.			Wet bulb temperature F.		Vapour pressure, inches.				Relative humidity, %				Cloud amount.	Wind direction at 12-30 hrs. (I. S. T.) Number of winds from—								
	Mean 12-30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean 12-30 hrs. (I.S.T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 12-30 hrs. (I. S. T.)	From minimum.	Mean 12-30 hrs. (I.S.T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 12-30 hrs. (I.S.T.)	Mean of daily means.	Departure rom normal.	Mean 12-30 hrs. (I.S.T.)	N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Jaipur (1,431)																										
January	28·585	28·5.2	+·024	65·8	54·9	-4·1	...	51·4	...	·195	·206	...	...	30	48	...	1·7	1	5	1	3	5	5	2	6	3
February	28·480	28·454	-·038	74·0	63·9	+1·0	...	57·5	...	·251	·263	...	...	32	46	...	1·7	1	3	3	2	4	4	3	6	2
March	28·347	28·414	+·007	86·2	73·3	-0·1	...	60·5	...	·187	·196	...	...	15	26	...	1·4	4	1	1	1	3	6	6	6	3
April	28·363	28·330	+·029	90·6	79·1	-5·7	..	63·8	..	·244	·256	...	...	19	28	...	3·2	1	1	2	3	4	5	6	5	3
May	28·218	28·187	-·011	103·1	90·1	-0·2	...	67·9	...	·213	·254	...	...	10	19	...	1·1	1	0	0	2	0	6	18	3	1
June	28·111	28·084	-·003	102·1	91·8	+2·2	...	74·0	...	·463	·491	...	...	24	34	...	1·6	1	2	0	0	0	11	11	5	0
July	28·066	28·042	-·027	88·4	83·5	-0·8	...	78·6	...	·842	·840	...	...	65	75	...	8·0	0	4	1	1	3	4	7	8	3
August	28·190	28·167	+·034	87·5	81·2	-0·8	...	76·6	...	·765	·773	...	...	61	71	...	6·2	2	1	2	0	2	7	10	4	3
September	28·239	28·217	-·011	86·9	80·0	-1·7	...	75·4	...	·729	·725	...	...	58	72	...	4·2	3	4	2	0	0	3	10	5	3
October	28·433	28·414	+·001	88·8	75·4	-1·8	...	65·6	...	·323	·371	...	...	25	42	...	1·1	2	3	1	1	1	4	5	11	3
November	28·527	28·514	-·002	83·6	68·1	+0·1	...	60·9	...	·233	·289	...	...	21	41	...	0·3	0	0	0	0	1	9	11	8	1
December	28·560	28·543	-·021	71·5	59·7	-0·9	...	55·8	...	·236	·258	...	...	32	52	...	1·7	4	4	5	3	5	6	1	3	1
Year	28·343	28·327	-·004	85·7	75·1	-1·0	...	65·7	...	·390	·411	...	...	33	46	...	2·7	20	28	18	16	28	69	90	70	26
Bombay (37)																										
January	29·940	29·920	+·026	77·0	72·3	-1·6	...	65·0	...	·466	·500	-·071	...	49	62	-6	1·9	7	8	4	1	1	0	0	10	0
February	29·879	29·856	-·013	79·0	74·4	0	...	68·8	...	·570	·587	+·006	...	57	69	+1	0·2	6	2	2	0	0	0	3	15	0
March	29·843	29·810	-·003	85·2	79·5	+1·3	...	71·7	...	·690	·635	-·061	...	51	63	-9	0·7	6	3	1	0	0	2	5	14	0
April	29·804	29·768	+·014	85·0	81·2	-0·5	...	75·7	...	·765	·736	-·035	...	63	72	-2	1·3	4	0	0	0	0	2	12	12	0
May	29·756	29·721	+·008	88·1	84·4	+0·1	...	78·9	...	·860	·852	-·012	...	65	72	-2	2·1	1	0	0	0	0	2	14	14	0
June	29·638	29·615	+·004	85·8	83·7	+0·7	...	79·7	...	·930	·918	+·009	...	76	80	-1	6·0	1	0	1	1	4	9	11	2	1
July	29·613	29·592	-·016	82·6	81·2	+0·3	...	78·5	...	·921	·900	+·009	...	83	85	0	9·2	0	0	0	0	1	10	18	2	0
August	29·717	29·694	+·027	82·0	80·4	+0·3	...	77·7	...	·890	·859	-·003	...	82	83	-1	9·0	2	2	0	0	1	6	14	6	0
September	29·733	29·712	-·015	81·6	79·5	-0·5	..	76·8	...	·854	·830	-·022	...	80	83	0	6·3	2	0	0	0	2	7	11	8	0
October	29·778	29·761	-·022	86·6	82·5	+1·5	...	77·4	...	·814	·840	+·011	...	65	76	-2	3·4	4	5	3	1	1	5	1	11	0
November	29·890	29·869	+·023	84·6	80·1	+1·1	...	72·9	...	·654	·705	+·013	...	55	69	-1	1·5	3	12	6	2	1	0	0	6	0
December	29·898	29·882	-·007	81·2	77·1	+1·4	...	70·0	...	·581	·625	+·024	...	55	67	-1	2·0	2	9	8	2	0	1	1	8	0
Year	29·791	29·767	+·003	83·2	79·7	+0·4	...	74·4	...	·742	·751	-·011	...	65	73	-2	3·6	38	41	25	7	11	44	90	108	1
Poona (1,834)																										
January	28·102	28·089	+·017	79·4	67·4	-1·9	...	61·1	...	·312	·330	...	...	31	52	...	3·3	1	2	5	4	7	3	2	4	3
February	28·052	28·033	-·010	86·1	72·0	-1·4	...	61·4	...	·239	·293	...	...	19	40	...	0·5	1	2	1	13	3	0	4	0	4
March	28·028	28·005	+·011	91·2	76·2	-3·6	...	62·4	...	·208	·289	...	...	15	35	...	0·9	5	4	5	3	4	1	5	2	2
April	27·968	27·950	+·015	94·5	79·7	-4·2	...	65·6	...	·269	·381	...	...	17	38	...	1·8	2	2	2	4	3	3	5	7	2
May	27·921	27·905	+·005	96·6	83·5	-0·4	...	69·3	...	·373	·471	...	...	22	44	...	3·3	4	4	0	0	0	0	7	16	0
June	27·828	27·819	-·006	86·5	79·5	+0·4	...	73·8	...	·674	·695	...	...	55	71	...	7·4	1	1	1	1	1	3	15	6	1
July	27·808	27·792	-·024	79·2	74·8	-0·6	...	72·8	...	·726	·709	...	...	74	82	...	9·0	0	0	0	0	0	5	23	3	0
August	27·902	27·885	+·024	79·8	74·2	0	...	72·2	...	·698	·692	...	...	69	82	...	8·7	0	0	1	0	0	5	22	2	1
September	27·911	27·902	-·020	80·2	73·2	-1·5	...	71·3	...	·658	·659	...	...	65	79	...	7·7	0	1	0	0	0	1	22	4	2
October	27·978	27·974	-·018	85·3	77·5	+1·2	...	72·1	...	·625	·660	...	...	53	74	...	6·4	0	9	7	0	0	0	1	0	8
November	28·089	28·082	+·036	88·9	70·7	-1·4	...	64·1	...	·351	·406	...	...	31	54	..	2·2	0	7	11	0	0	0	0	0	3
December	28·081	28·077	-·011	81·9	69·6	+1·2	...	63·6	...	·363	·385	...	...	33	56	...	2·8	1	4	8	6	1	2	0	1	8
Year	27·972	27·959	+·001	85·4	74·9	-1·0	...	67·5	...	·458	·497	...	...	40	59	...	4·5	15	36	41	46	19	23	106	45	34

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 12-30 HRS. (I. S. T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1935.

Station, height of bar. cistern above mean sea level in feet and month.	Pressure reduced to 32° F and standard gravity, inches.			Temperature of air, °F.			Wet bulb temperature, °F.		Vapour pressure, inches.				Relative humidity, %				Cloud. amount.	Wind direction at 12—30 hrs. (I.S.T.) Number of winds from—								
	Mean 12—30 hrs. (I.S.T.)	Mean of daily means.	Departure from normal.	Mean 12—30 hrs. (I.S.T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 12—30 hrs. (I. S. T.	From minimum.	Mean 12—30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 12—30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean 12—30 hrs. (I. S. T.)	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Bangalore (3,021)																										
January	26·944	26·934	+·016	77·7	69·9	+2·4	...	63·6	...	·426	·461	+·053	...	45	64	+2	5·4	0	4	20	3	2	0	2	0	0
February	26·905	26·891	−·010	83·4	74·2	+2·2	...	68·6	...	·360	·412	+·005	...	22	51	-3	2·6	0	10	13	2	1	2	0	0	0
March	26·875	26·858	−·006	87·3	78·2	+1·6	...	64·1	...	·330	·383	−·064	...	26	42	-8	3·0	0	2	14	3	4	0	3	1	4
April	26·837	26·823	+·013	88·5	80·6	+0·7	...	69·0	...	·480	·514	−·041	...	36	53	-2	5·4	2	0	10	1	2	2	10	0	3
May	26·792	26·780	+·005	89·3	80·8	+2·3	...	70·0	...	·509	·544	−·061	...	37	55	-8	4·0	2	0	0	1	1	2	14	11	6
June	26·756	26·745	−·010	82·8	75·5	+1·5	...	70·0	...	·581	·585	−·038	...	53	66	-8	6·7	0	0	0	0	0	1	27	2	0
July	26·751	26·747	−·013	78·9	72·2	+0·2	...	68·5	...	·575	·585	−·022	...	59	74	-3	9·6	0	0	0	0	0	4	27	0	0
August	26·793	26·785	+·009	77·8	72·0	+0·2	...	69·5	...	·621	·626	+013	...	66	77	-2	8·9	1	0	0	0	0	0	27	3	0
September	26·797	26·794	−·012	78·1	71·6	-0·2	...	68·7	...	·591	·588	−·035	...	62	73	-7	7·7	0	0	0	0	1	4	20	5	0
October	26·818	26·820	−·019	80·0	72·8	+1·0	...	69 8	...	·610	·619	+·011	...	61	74	-4	8·1	1	6	10	0	1	2	2	5	3
November	26·905	26·909	+·030	77·9	69·3	-0·3	...	64·8	...	·462	·485	−·054	...	49	64	-11	4·2	2	10	17	1	0	0	0	0	0
December	26·913	26·914	0	77·4	69·2	+1·7	...	63·8	...	·484	·476	+·010	...	47	64	-6	4·7	0	13	13	3	1	0	0	1	0
Year	26·841	26·833	0	81·6	73·9	+1·1	...	67·1	...	·498	·523	−·019	...	48	63	-5	5·9	8	45	97	14	13	17	132	28	10
Madras (22)																										
January	29·941	29·930	+·004	(a) 81·9	75·3	-0·1	...	(a) 72·5	...	(a) ·674	·675	...	...	(a) 62	75	...	6·	2	10	15	4	0	0	0	0	0
February	29·880	29·866	−·030	85·0	76·2	-0·2	...	73·5	...	·668	·692	...	...	56	72	...	3·7	2	1	4	9	12	0	0	0	0
March	29·825	29·812	−·023	88·1	79·3	+0·3	...	76·0	...	·737	·761	...	...	56	71	...	2·9	1	3	2	15	10	0	0	0	0
April	29·743	29·733	−·022	91·2	85·1	+1·5	...	79·7	...	·857	·880	...	...	59	73	...	4·8	0	0	3	9	18	0	0	0	0
May	29·621	29·617	−·046	97·7	90·3	+2·1	...	81·1	...	·835	·893	...	...	48	67	...	4·7	1	0	1	11	11	3	3	1	0
June	29·605	29·601	−·028	95·7	89·3	+1·5	...	78·9	...	·759	·838	...	...	46	65	...	5·7	1	0	2	7	9	4	5	2	0
July	29·613	29·608	−·040	92·7	86·7	+1·5	...	76·8	...	·708	·745	...	...	47	61	...	3·9	1	0	0	0	1	4	20	3	2
August	29·674	29·671	−·005	90·2	83·7	-0·3	...	77·5	...	·772	·832	...	...	56	73	...	7·9	0	0	0	2	5	2	13	3	6
September	29·676	29·680	−·027	89·7	83·4	0	...	77·4	...	·772	·826	...	...	56	72	...	6·6	0	0	0	4	4	4	11	3	4
October	29·735	29·743	−·032	86·7	80·7	+0·1	...	77·8	...	·830	·846	...	...	66	79	...	7·0	3	2	5	11	4	0	2	2	2
November	29·860	29·865	+·009	83·8	77·7	-0·1	...	74·7	...	·739	·747	...	...	64	76	...	5·9	18	4	6	0	0	0	0	0	2
December	29·893	29·894	−·016	82·0	75·9	+0·3	...	73·6	...	·714	·721	...	...	66	79	...	6·7	8	11	11	0	0	0	0	1	0
Year	29·755	29·752	−·021	88·7	82·0	+0·6	...	76·6	...	·755	·788	...	...	57	72	...	5·9	37	31	49	72	74	17	54	15	16
Kodaikanal (7,688)																										
January	22·806	22·794	+·024	58·2	52·5	0	...	53·1	...	·351	·310	+·054	...	73	80	+18	6·3	0	6	2	7	4	0	0	5	7
February	22·802	22·785	+·004	61·0	54·5	+0·8	...	51·2	...	·276	·246	—·016	...	51	64	+3	3·6	5	14	1	3	0	0	0	4	1
March	22·801	22·784	+·001	64·1	56·9	+0·6	...	53·5	...	·301	·280	+·012	...	51	67	+11	4·7	3	11	4	8	0	0	0	1	4
April	22·795	22·764	+·001	55·2	58·9	-0·3	...	57·5	...	·394	·366	+·027	...	64	77	+12	6·7	4	8	4	7	1	0	0	0	6
May	22·775	22·758	+·016	69·2	62·3	+2·2	...	58·5	...	·380	·357	—·024	...	54	69	-3	4·8	4	11	3	4	0	0	1	4	4
June	22·730	22·710	+·010	63·9	59·0	+1·8	...	58·5	...	·437	·417	+·041	...	74	79	+1	7·7	1	1	1	4	4	0	2	10	7
July	22·714	22·697	+·010	60·3	56·3	+0·6	...	55·5	...	·389	·373	—·004	...	75	80	-3	8·4	2	0	0	0	0	0	5	24	0
August	22·739	22·723	+·022	60·0	56·4	+0·5	...	56·8	...	·427	·422	+·042	...	83	87	+3	8·7	2	1	0	3	4	0	3	13	5
September	22·744	22·733	+·017	61·3	56·5	+0·9	...	55·8	...	·391	·374	—·006	...	72	80	-4	7·1	2	0	0	2	3	1	3	15	4
October	22·746	22·744	+·005	60·0	55·9	+1·0	...	55·9	...	·404	·371	—·007	...	79	85	-1	9·1	6	9	0	3	3	0	1	4	5
November	22·792	22·789	+·030	58·3	54·1	+0·7	...	53·8	...	·371	·334	—·012	...	78	81	-2	7·1	3	11	3	6	1	0	0	5	1
December	22 791	22·784	+·324	58·7	53·4	+0·3	...	53·1	...	·347	·304	+·028	...	72	78	+12	6·7	1	12	6	9	2	0	0	1	0
Year	22·770	22·755	+·013	61·7	56·4	+0·7	...	55·3	...	·372	·346	+·011	...	69	77	+4	6·7	33	84	24	56	22	1	15	86	44

(a) Mean of 30 days.

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 12-30 HRS. (I. S. T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1935.

Station, height of bar. cistern above mean sea level in feet and month.	Pressure reduced to 32°F and standard gravity, inches.			Temperature of air, °F.			Wet bulb temperature, °F.		Vapour pressure, inches.				Relative humidity, %				Cloud amount.	Wind direction at 12—30 hrs. (I.S.T.) . Number of winds from—								
	Mean 12—30 hrs. (I.S.T.)	Mean of daily means.	Departure from normal.	Mean 12—30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 12—30 hrs. (I. S. T.)	From minimum.	Mean 12—30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 12—30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean 12—30 hrs. (I. S. T.)	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Trivandrum (200)																										
January . .	29·668	29·666	+·006	86·1	80·1	+3·0	...	75·7	...	·748	·774	+·108	...	60	77	+3	4·0	1	0	0	0	3	12	12	0	3
February . .	29·645	29·641	—·005	86·4	79·4	+0·8	...	75·0	...	·715	·747	+·062	...	57	74	+1	4·8	0	0	0	0	3	15	8	0	2
March . . .	29·612	29·609	—·015	88·9	82·1	+1·8	...	77·8	...	·803	·831	+·056	...	59	76	0	4·0	0	0	0	0	2	7	21	1	0
April . . .	29·590	29·584	+·007	87·2	82·5	+0·6	...	79·7	...	·910	·906	+·078	...	71	82	+3	7·3	0	0	0	0	1	1	26	1	1
May . . .	29·567	29·560	—·008	89·0	83·6	+2·3	...	79·6	...	·884	·899	+·056	...	65	79	—4	6·4	1	0	0	0	0	0	18	12	0
June . . .	29·567	29·562	—·013	84·9	80·3	+1·9	...	78·3	...	·877	·880	+·070	...	73	85	—1	6·8	0	0	0	0	0	0	15	15	0
July . . .	29·582	29·579	—·009	82·2	77·8	+0·6	...	77·0	...	·857	·843	+·048	...	78	88	+1	8·5	5	0	0	0	0	0	4	22	0
August . . .	29·598	29·597	+·001	81·9	77·6	—0·2	...	76·7	...	·848	·843	+·058	...	78	90	+4	8·0	2	0	0	0	0	0	14	15	0
September . .	29·606	29·607	—·006	83·5	78·6	+0·6	...	77·3	...	·852	·862	+·081	..	75	87	+3	6·2	2	0	0	0	0	0	14	14	0
October . . .	29·584	29·592	—·026	83·6	78·9	+1 2	...	77·6	...	·865	·859	+·073	...	76	87	+2	7·5	0	0	0	0	0	3	17	8	3
November . .	29·639	29·647	+·010	83·4	78·9	+1·2	...	77·3	...	·853	·843	+·062	...	76	87	+3	7·0	4	0	0	1	2	3	10	3	7
December .	29·634	29·639	—·011	84·4	79·4	+2·0	...	75·8	...	·775	·786	+·078	...	66	80	+2	5·8	0	1	0	1	6	6	5	0	12
Year . . .	29·608	29·607	—·006	85·1	79·9	+1·3	...	77·3	...	·832	·839	+·069	...	69	83	+2	6·4	15	1	0	2	17	47	164	91	28

TABLE VII.—ABSTRACT OF OBSERVATIONS RECORDED AT 10 AND 16 HRS. (L. M. T.)

Station and height of bar. cistern above mean sea level in feet.	Month.	PRESSURE REDUCED TO 32°F AND STANDARD GRAVITY, INCHES.					TEMPERATURE OF AIR, °F.								WET BULB TEMPERATURE, °F.				VAPOUR PRESSURE, INCHES.				
		Mean 10 hrs.	Mean 16 hrs.	Mean daily range.	Mean of daily means.	Departure from normal.	Mean maximum.	Mean minimum.	Highest maximum.	Lowest minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
SEYCHELLES (INDIAN OCEAN) (15)	January	29·899	29·808	·093	29·863	+·015	83·4	73·8	87	72	81·0	81·2	77·4	—1·1	72·2	76·5	76·4	75·0	·767	·840	·843	·835	+·002
	February	29·866	29·775	·091	29·828	—·024	84·6	75·0	87	72	82·1	82·4	78·7	—0·4	72·3	76·9	76·7	75·1	·754	·826	·840	·830	—·012
	March	29·863	29·772	·091	29·823	—·005	85·4	75·3	88	72	83·3	83·0	79·3	+0·4	73·0	77·2	77·1	75·8	·779	·850	·849	·853	—·008
	April	29·860	29·773	·087	29·819	—·010	86·0	75·0	89	72	83·9	82·9	79·2	—0·2	73·1	77·9	77·4	76·1	·787	·873	·859	·865	+·002
	May	29·876	29·796	·080	29·837	—·027	85·7	74·6	88	72	83·9	82·8	78·7	—0·8	73·1	77·6	77·3	76·0	·793	·860	·860	·851	+·005
	June	29·878	29·807	·071	29·844	—·026	82·7	75·2	85	70	80·7	81·0	77·8	+0·2	72·2	75·7	75·8	74·6	·748	·819	·819	·811	+·030
	July	29·911	29·841	·070	29·877	—·039	80·8	75·1	83	71	78·9	79·0	76·6	+0·2	70·7	73·7	73·7	72·7	·691	·759	·758	·754	0
	August	29·924	29·844	·080	29·887	—·009	81·0	74·3	83	71	79·0	79·6	76·2	—0·4	70·3	73·6	73·8	72·6	·686	·754	·753	·739	—·008
	September	29·918	29·833	·085	29·884	—·019	82·3	75·8	86	71	80·4	80·8	77·8	+0·1	71·7	75·2	75·5	74·1	·721	·802	·809	·784	+·017
	October	29·914	29·819	·095	29·877	—·001	83·0	74·5	85	71	80·5	81·3	77·3	—0·4	71·1	74·6	75·0	73·6	·714	·777	·781	·770	—·024
	November	29·904	29·816	·088	29·873	+·008	83·9	74·8	86	72	81·8	81·5	77·9	+0·3	72·0	76·1	76·2	74·8	·746	·822	·830	·824	—·012
	December	29·880	29·797	·083	29·948	—·011	83·6	74·4	87	72	81·3	81·3	77·9	0	71·9	75·9	75·8	74·5	·747	·820	·815	·819	—·013
	Year	29·891	29·807	·084	29·855	—·012	83·5	74·8	89	70	81·4	81·4	77·9	—0·2	72·0	75·9	75·9	74·6	·744	·817	·818	·811	—·001

AT SEYCHELLES DURING EACH MONTH AND THE YEAR 1935.

Relative Humidity, %.					Cloud Amount. (Tenths of Sky).				Wind Direction at 10 hrs. and 16 hrs. Number of Winds from :—									Wind Velocity.		Rainfall, Inches.		Number of rainy days.
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	N.	N E	E	S E	S	S W	W	N W	Calm	Mean wind direction.	Mean velocity in miles per diem.	Departure from normal.	Actual.	Departure from normal.	Actual.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
92	81	79	87	+3	6·7	7·0	6·9	−0·1	6	9	8	2	0	1	6	25	5	N 17 W	123	+16	20·57	+3·48	15
87	76	76	88	0	6·8	6·8	6·8	+0·3	0	5	8	3	0	0	4	32	4	N 28 W	123	+16	12·31	−0·29	10
89	75	75	84	+1	5·0	6·0	5·5	−1·2	6	10	8	1	0	0	11	19	6	N 19 W	133	+47	13·75	+3·84	13
91	75	77	84	+4	6·1	6·4	6·3	+1·2	7	7	13	9	2	1	3	13	5	N 43 E	101	+19	11·37	+4·02	17
93	74	77	83	+3	5·5	5·8	5·6	+0·5	1	0	22	20	4	2	2	5	6	S 62 E	123	+3	6·58	+0·51	10
86	78	78	83	+4	6·7	7·1	6·9	−0·2	0	1	16	33	6	1	0	1	2	S 54 E	233	+45	6·27	+1·47	9
79	77	77	79	+1	6·6	6·6	6·6	+1·0	0	0	3	33	20	6	0	0	0	S 26 E	276	+65	15·63	+11·22	15
81	76	76	79	+1	6·9	6·4	6·6	+0·2	0	0	17	29	14	2	0	0	0	S 45 E	256	+25	3·47	+0·91	9
81	77	77	80	0	6·3	6·4	6·3	+0·7	0	0	23	31	3	1	0	0	2	S 60 E	268	+58	2·80	−2·06	5
84	74	73	79	−2	5·5	5·5	5·5	−0·7	3	4	15	21	12	0	3	2	2	S 55 E	168	+29	6·75	+1·97	8
87	77	78	84	+1	6·1	6·8	6·5	−0·4	4	3	11	8	6	3	5	11	9	N 87 E	120	+27	11·42	+1·01	15
88	76	77	82	−1	6·2	6·9	6·5	−0·3	6	4	7	4	1	2	5	30	3	N 31 W	120	+11	13·65	−0·79	12
87	76	77	82	+1	6·2	6·5	6·3	+0·1	33	43	151	194	68	19	39	138	44	...	170	+30	122·57	+25·29	138

TABLE VIII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 14 STATIONS DURING EACH MONTH AND THE YEAR 1935.

Station, Latitude and Longitude.	Month.	Bright Sunshine. No. of days with duration. Nil.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month.	Percentage of possible hours of sunshine in the month.	Duration in the month. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal Radiation Temperature (1½' above ground). Mean minimum.	Departure from normal.	Lowest in the month.	Date.	Mean depression below the minimum	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
CALCUTTA— Lat. 22° 32' N. Long. 88° 20' E.	January	0	1	5	8	17	251·9	75	10·2	20	1·0	15	50·2	+1·6	42·0	10,11	5·5	—1·8
	February	0	0	4	13	11	232·0	73	10·3	18	2·8	4	58·7	+5·2	50·4	12	4·8	—2·2
	March	1	1	3	13	13	245·1	66	10·2	17	Trace	31	65·9	+2·5	55·6	2	4·9	—1·2
	April	0	1	6	11	12	239·4	63	11·2	27	2·1	2	71·6	+0·2	65·3	1	3·9	—0·6
	May	0	0	1	10	20	282·0	69	10·5	16	5·4	30	78·2	+3·5	71·5	16	3·3	+0·1
	June	0	3	11	11	5	190·6	47	11·6	13	0·2	2	78·6	+1·9	72·4	11	2·3	+0·1
	July	1	10	9	11	0	133·6	32	8·8	31	Trace	9	77·9	+1·6	74·2	10	2·0	+0·1
	August	3	12	4	8	4	131·4	33	11·3	25	0	12,14,21	77·2	+0·6	73·1	22	1·5	—0·5
	September	0	6	12	9	3	157·5	43	9·8	29	0·3	21	77·2	+1·6	74·5	27	2·1	—0·5
	October	0	1	3	9	18	265·2	74	10·4	13,26	1·2	21	69·6	—0·6	60·4	30	4·3	—0·1
	November	0	0	0	4	26	286·1	86	10·5	4	6·1	8	57·2	—1·2	49·2	30	6·1	—0·2
	December	0	0	1	8	22	275·1	83	9·9	15	4·6	20	50·0	+1·4	43·0	21	6·6	—1·0
	Year	5	35	59	115	151	2,689·9	61	11·3	...	0	...	67·7	+1·5	42·0	1	3·9	—0·7
AGRA— Lat. 27° 05' N. Long. 78° 01' E.	January	0	3	4	6	18	246·1	75	10·3	31	1·0	28	36·2	...	22·2	16	5·5	...
	February	0	1	0	5	22	263·5	84	10·8	28	0·8	3	41·5	...	38·0	11	5·6	...
	March	0	0	1	4	26	309·3	81	11·1	20	5·7	15	48·5	...	37·1	1	7·0	...
	April	0	0	1	5	24	305·1	80	12·0	21	3·8	5	56·1	...	45·0	1	8·7	...
	May	0	0	0	6	25	328·3	79	12·6	26	7·1	13	66·5	...	55·6	2	10·5	...
	June	0	0	5	6	19	277·8	67	12·3	27	3·2	30	76·3	...	66·1	1	8·4	...
	July (*a*)	1	8	11	5	5	144·2	35	10·8	6	0	8	77·6	...	75·2	27	2·6	...
	August	2	7	9	3	10	185·2	46	11·7	31	0	2,5	74·1*	...	70·6	26	2·7	...
	September	1	2	4	9	14	237·5	65	10·8	26	0	14	71·1	...	57·4	30	3·4	...
	October	0	2	0	1	28	297·3	83	10·6	11,17	0·7	30	53·8	...	46·8	29	6·5	...
	November	0	0	0	0	30	301·5	93	11·0	3	9·4	19	44·5	...	35·1	30	6·8	...
	December	1	1	1	7	21	264·4	81	10·0	3,20	0	11	38·4	...	29·8	20	6·5	...
	Year	5	24	36	57	242	3,151·9	71	12·6	...	0	...	57·3	...	22·2	1	6·2	...
LAHORE— Lat. 31° 35' N. Long. 74° 20' E.	January (*a*)	3	6	2	19	0	158·1	51	9·0	18	0	21,23,24	32·8	+1·1	18·8	18	6·1	—2·4
	February	2	1	6	4	15	209·3	68	10·4	9,27	0	3,11	43·4 (*d*)	+7·6	36·0	2	6·5	—1·9
	March	0	1	3	5	22	279·4	73	10·5	31	1·8	26	46·1	+0·4	36·1	1	9·0	+1·4
	April	1	1	2	7	19	277·7	72	12·4	22,30	0	4	53·2 (*b*)	—2·4	43·4	1	7·2	—0·5
	May	0	0	1	3	27	349·4	82	12·9	26,31	4·5	4	63·0 (*d*)	—1·7	49·8	26	8·5	+1·3
	June	0	0	1	2	27	338·7	80	12·9	19	4·6	22	67·9	—0·2	54·8	3	8·9	+1·1
	July	0	1	4	9	17	281·3	65	12·7	19	3·0	9	76·8	—0·2	71·8	12	4·0	+0·9
	August	0	2	4	12	13	252·4	61	12·0	25	0·7	10	73·7	—1·8	64·8	25	4·8	+1·5
	September	0	0	0	4	26	301·6	81	11·0	17,22,23	7·5	25	68·6 (*d*)	+1·4	58·8	30	6·1	+0·5
	October	0	0	0	3	28	306·9	87	10·6	3	6·6	30	52·9 (*c*)	+1·7	46½	27	7·9	—0·1
	November	0	0	1	8	21	273·0	86	10·2	8	4·1	20	44·5 (*c*)	+0·6	35·6	29	6·8	—2·5
	December	0	0	5	23	3	233·7	74	9·5	2	4·7	22	35·6 (*c*)	+4·1	25·6	28	6·2	—2·7
	Year	6	12	29	99	218	3,253·4	73	12·9	...	0	...	54·9	+0·9	18·8	1	6·8	—0·1

(*a*) Observations of bright sunshine for 30 days only. (*b*) Mean of 29 days. (*c*) Mean of 28 days. (*d*) Mean of 26 days. (*e*) Mean of 26 days. * Mean of 30 days.

TABLE VIII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 14 STATIONS DURING EACH MONTH AND THE YEAR 1935.

Station, Latitude and Longitude.	Month.	Bright sunshine. No. of days with duration. Nil.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month.	Percentage of possible hours of sunshine in the month.	Duration in the month. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal Radiation Temperature (1½' above ground). Mean minimum.	Departure from normal.	Lowest in the month.	Date.	Mean depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
SRINAGAR— Lat. 34° 05′ N. Long. 74° 50′ E.	January												26·1		15·7	16	1·0	
	February												32·3		21·0	2	1·1	
	March												34·9		26·4	6	3·1	
	April												39·1		34·0	1, 16	2·9	
	May												46·1		36·4	1	4·6	
	June												(b) 49·7		41·4	3	4·1	
	July												62·0		53·0	2	2·1	
	August												60·2		48·5	28	2·2	
	September												50·0		41·2	29	2·7	
	October												38·5		27·2	29	3·5	
	November												31·3		25·8	30	3·8	
	December												22·1		18·0	21	7·5	
	Year												40·9		15·7	I	3·2	
PESHAWAR— Lat. 34° 01′ N. Long. 71° 35′ E.	January												(b) 31·2	...	20·9	13	6·8	...
	February												(b) 38·2	...	30·8	10	7·3	...
	March												(c) 43·7	...	33·5	4	8·8	...
	April												(b) 49·4	...	39·3	2	7·0	...
	May												58·4	...	50·1	1	11·8	...
	June												62·4	...	56·0	4	14·3	...
	July												74·1	...	63·9	27	5·9	...
	August												(c) 73·4	...	65·2	25	2·9	...
	September												63·2	...	51·3	22	7·4	...
	October												(a) 46·6	...	40·6	30	7·6	...
	November												40·2	...	32·5	17	8·7	...
	December												29·2	...	23·8	4 days.	8·4	...
	Year												51·1	...	20·9	I	8·0	...
DRIGH ROAD (KARACHI)— Lat. 24° 53′ N. Long 67° 07′ E.	January	0	1	1	5	24	270·2	84	10·3	25, 30	1·5	28	(a) 46·9	...	29·5	17	2·2	...
	February	1	1	2	5	19	236·2	75	10·4	16	0	2	(d) 53·7	...	46·3	16	3·1	...
	March	0	0	1	10	20	286·3	77	10·8	28	5·9	14	(n) 61·0	...	53·0	28	1·0	...
	April	0	0	1	10	19	272·9	71	11·4	16	5·7	3	67·6	...	57·2		2·6	...
	May	0	0	2	11	18	283·6	69	11·1	27	4·3	4	74·3	...	67·0	24	2·4	...
	June	2	6	7	9	6	168·7	41	10·2	15	0	29, 30	79·7	...	75·8	8	1·5	...
	July	6	14	7	4	0	80·5	19	8·5	29	0	6 days	(a) 79·7	...	76·4	12	1·2	...
	August	17	7	3	4	7	124·2	31	10·9	30	0	10 days	(a) 76·0	...	73·8	26	1·1	...
	September	0	2	6	18	4	205·3	56	9·9	1	1·6	5, 29	74·3	...	68·0	26	2·1	...
	October	0	1	1	7	22	283·6	79	10·4	4	0·4	28	63·6	...	56·0	13	3·4	...
	November	0	0	0	9	21	279·7	85	10·3	2	7·9	26	59·4	...	53·8	20	3·1	...
	December	0	0	1	12	18	273·8	83	9·9	19	3·3	11	51·9	...	42·3	19	3·4	...
	Year	19	32	32	104	178	2,774·0	63	11·4	..	0	...	65·7	...	29·5	I	2·3	...

(a) Mean of 30 days. (b) Mean of 29 days. (c) Mean of 28 days. (d) Mean of 27 days. (h) Mean of 23 days. (n) Mean of 17 days.

TABLE VIII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 14 STATIONS DURING EACH MONTH AND THE YEAR 1935.

Station, Latitude and Longitude.	Month.	Bright Sunshine. No. of days with duration. Nil.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month.	Percentage of possible hours of sunshine in the month.	Duration in the month. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal Radiation Temperature (1½' above ground). Mean minimum.	Departure from normal.	Lowest in the month.	Date.	Mean depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
JAIPUR— Lat. 26° 55' N. Long. 75° 50' E.	January	0	0	5	5	21	278·4	84	10·3	19	3·2	28	34·6	−1·9	18·9	16	8·7	−1·7
	February	0	1	2	3	22	282·1	83	10·9	19, 20, 28	2·8	13	45·4	+5·4	38·7	28	7·1	−3·3
	March	0	0	1	6	24	309·6	83	11·4	30	5·0	27	47·9	−1·2	37·1	30	10·3	+0·5
	April	0	1	5	4	20	264·2	69	11·9	25	2·8	13	57·1	−2·1	47·3	2	8·5	−1·3
	May	0	0	1	2	28	323·4	77	12·3	25	5·0	8	68·3	−0·5	56·7	2	7·5	−0·4
	June	0	1	6	2	21	271·4	65	12·0	1	2·4	26	75·2	−0·7	68·8	1	4·9	+0·5
	July	5	14	3	6	3	110·9	26	10·1	25	0	5 days	75·2	0	72·1	25	2·1	−0·9
	August	2	10	8	4	7	158·4	39	11·4	25	0	1, 3	72·2	−0·5	66·9	24	2·9	−0·3
	September	0	4	6	8	12	219·0	59	10·9	8	0·7	15	68·7	+1·2	56·8	30	4·0	−1·1
	October	0	2	0	1	28	304·2	88	10·8	15, 16, 17	1·9	30	55·7	+0·7	44·0	18	6·2	−2·9
	November	0	0	0	1	29	304·0	94	10·6	1, 4	7·9	29	44·3	+1·2	37·6	30	9·3	−1·3
	December	0	1	3	5	22	272·1	84	10·1	3, 4, 18	0·6	11	40·2	+3·5	31·3	19	7·9	−2·8
	Year	7	34	40	47	237	3,077·7	70	12·3	...	0	...	57·1	+0·5	18·9	I	6·6	−1·3
BOMBAY— Lat. 18° 54' N. Long. 72° 49' E.	January	0	1	1	3	26	285·5	83	10·0	5 days	0·2	29	55·3	−3·5	39·2	15	9·7	+1·8
	February	0	0	0	1	27	283·7	88	10·7	24	8·9	12	58·6	−1·3	52·1	1	8·5	+1·1
	March	0	0	0	2	29	305·8	82	10·3	5,6,31	8·8	25,27	61·4	−4·0	52·9	5	10·3	+3·9
	April	0	0	0	2	28	306·1	81	11·0	25,26	7·4	16	68·4	−2·7	62·2	5	7·2	+2·5
	May	0	0	0	0	31	335·5	83	11·5	4,11,21	9·3	31	73·6	−2·8	69·1	4	5·7	+2·8
	June	2	6	4	7	11	189·6	47	11·6	3	0	19,23	76·8	0	73·9	23	2·4	+0·7
	July	8	16	5	1	1	54·2	13	9·2	13	0	8 days	74·9	−0·4	72·9	20	1·9	+0·6
	August	2	20	8	0	1	72·0	18	10·4	20	0	3,9	74·2	−0·2	71·3	29	2·3	+0·7
	September	4	7	4	8	7	157·7	43	10·0	24,27,28	0	4 days	72·6	−0·8	68·6	27	2·8	+0·7
	October	0	0	8	8	15	249·7	69	10·5	8	3·4	23,26	70·7	+0·1	64·9	13	6·2	+1·4
	November	0	0	0	2	28	299·9	89	10·7	4	8·2	3	62·6	−2·3	53·3	16	10·3	+2·9
	December	0	1	1	2	27	291·5	85	10·2	5 days	2·2	18	60·0	−0·5	50·6	31	10·0	+1·8
	Year	16	51	31	36	231	2,831·2	64	11·6	...	0	...	67·4	−1·6	39·2	I	6·5	+1·8
POONA— Lat. 18° 32' N. Long. 73° 51' E.	January	0	1	3	5	22	277·8	81	10·6	16	0·6	29	44·6	...	27·0	17	6·6	...
	February	0	0	0	0	28	300·7	93	11·1	23,24,28	9·3	12	45·4	...	35·6	17	7·9	...
	March	0	0	0	0	31	335·7	90	11·3	4 days	9·2	26	51·4 (b)	...	39·9	6	7·1	...
	April	0	0	0	0	30	342·8	91	12·0	7 days	10·1	17	58·5	...	48·4	5	6·8	...
	May	0	0	0	1	30	360·9	89	12·4	4 days	8·2	8	64·3	...	56·0	4	6·8	...
	June	0	2	7	12	9	229·1	58	12·1	1	1·5	19	70·6	...	68·0	3,24	2·3	...
	July	4	15	5	5	2	97·3	24	10·7	12	0	4 days	69·8	...	67·8	30	1·7	...
	August	1	15	10	5	0	109·0	28	8·5	23	0	3	68·4	...	65·0	17	2·0	...
	September	0	11	6	5	8	162·4	44	10·7	23	0·1	9	65·2	...	57·6	21	3·0	...
	October	0	4	7	8	12	227·1	63	10·9	15	2·2	21	66·4	...	58·1	10	3·1	...
	November	0	0	0	4	26	302·7	90	10·9	5,10	6·9	1	50·2	...	42·6	16	5·0	...
	December	0	0	1	9	21	288·2	84	10·6	4	3·5	18	49·0	...	42·1	4	4·5	...
	Year	5	48	39	54	219	3,033·7	68	12·4	...	0	...	58·6	...	27·0	1	4·7	...

(*b*) Mean of 29 days.

TABLE VIII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 14 STATIONS DURING EACH MONTH AND THE YEAR 1935.

Station, Latitude and Longitude.	Month.	Bright sunshine. No. of days with duration. Nil.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month.	Percentage of possible hours of sunshine in the month.	Duration in the month. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal radiation temperature (1)° above ground). Mean minimum.	Departure from normal.	Lowest in the month.	Date.	Mean depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
BANGALORE—	January	0	3	5	15	8	225·3	64	9·7	4 days	0·9	30	58·1	+3·3	52·0	19	2·6	—1·6
Lat. 12° 58' N.	February	0	1	1	11	15	244·9	75	9·9	10,15	2·5	23	59·3	+2·7	52·1	7	3·3	—1·0
Long. 77° 35' E.	March		0	1	10	20	279·7	75	10·4	17	4·3	10	63·7	+3·5	55·2	15	2·8	2·1
	April	0	0	5	15	10	238·6	51	10·8	15	3·4	19	67·1	+0·6	62·6	25	3·2	0
	May	0	0	4	14	13	255·5	65	10·6	5	3·6	18	68·2	+0·8	60·0	18	2·3	+0·3
	June	0	4	6	13	7	204·9	53	11·0	8	0·9	16,21	65·4	—0·5	62·0	12	2·1	+0·8
	July	4	14	10	2	1	78·9	20	9·4	1	0	4 days	64·7	—0·4	62·1	26	1·6	+0·4
	August	0	11	14	6	0	117·8	30	8·6	11	0·2	30	64·4	—0·4	61·0	11	1·5	+0·2
	September	1	8	6	10	5	165·4	43	10·1	21,26	0	7	63·7	—0·7	59·0	24	1·6	+0·1
	October	2	7	7	15	0	155·1	42	8·5	3	0	17, 18	64·3	+1·4	58·1	30	1·7	—0·9
	November		2	3	9	14	220·8	64	9·9	7	0	15, 16	67·9	—1·2	48·0	30	2·4	—0·9
	December	0	3	7	15	6	212·4	60	9·6	1,3	0·3	26	58·2	+2·8	50·0	1	1·6	—1·8
	Year	9	53	69	135	99	2,399·3	54	11·0	...	0	...	62·0	+1·0	48·0	XI	2·2	—0·5
MADRAS—	January	1	5	2	6	17	234·4	66	10·8	24	0	7	64·7	—0·7	58·0	3	4·4	+1·8
Lat. 13°04'N.	February	0	0	1	3	24	285·7	87	11·2	18,28	3·5	1	64·0	—2·0	61·1	9	4·7	+2·1
Long 80°15'E.	March	0	0	1	1	29	307·6	82	10·6	16,17,27	5·2	9	68·2	—1·4	61·0	16	4·3	+2·0
	April	0	1	2	2	25	293·5	79	11·6	27	1·1	4	76·2	+0·3	71·6	6	2·8	+1·2
	May	0	0	0	5	26	322·9	82	11·8	14	7·2	25	79·6	—0·1	70·6	6	2·9	+1·5
	June	1	3	2	6	18	258·2	67	12·0	18,20	0	21	79·8	—0·3	73·9	14	2·0	+1·0
	July	4	6	6	8	7	166·5	42	11·8	2	0	4 days	78·2	+0·5	72·2	2	2·2	+1·1
	August	1	1	7	11	11	235·0	60	11·8	1	0	14	75·3	—1·3	68·5	22	1·5	+0·5
	September	1	2	5	12	10	220·7	61	10·5	11	0	7	74·2	—1·7	69·8	26	2·8	+1·9
	October	1	6	3	8	13	210·1	57	10·6	27	0	17	73·1	—0·6	69·4	7	2·3	+1·3
	November	1	2	2	8	17	251·2	73	11·0	30	0	14	68·0	—2·5	60·0	30	3·4	+1·9
	December	3	2	3	8	15	231·2	66	10·8	3	0	17,18,19	65·1	—2·2	60·0	4 days	4·9	+3·1
	Year	13	28	34	78	212	3,017·0	68	12·0	...	0	...	72·2	—1·0	58·0	I	3·2	+1·6
KODAIKANAL—	January	2	5	7	12	5	184·9	51	10·1	26	0·5	8	39·4	+1·5	30·1	11	6·9	—0·4
Lat.10°14' N.	February	0	0	3	9	16	243·0	78	11·0	10	3·8	1	37·6	—0·3	29·1	14	9·6	+2·4
Long. 77°28'E.	March	0	1	4	12	14	266·3	71	11·3	25	2·7	10	39·4	—1·5	32·7	18	10·2	+3·9
	April	0	2	10	12	6	200·5	54	10·8	18	1·8	2	44·6	—0·4	36·1	21	8·1	+1·8
	May	0	0	4	17	10	258·4	66	11·3	5	4·2	21	46·2	—1·4	37·8	4	9·8	+4·3
	June	0	7	14	8	1	142·7	37	9·6	1	0·2	25	49·7	+1·1	45·1	4	4·5	+0·7
	July	3	14	8	0	6	111·7	29	9·8	21	0·1	13	49·8	+1·3	46·0	22	2·9	+0·2
	August	1	9	15	4	2	135·4	35	11·2	2	0·6	6	48·8	+0·9	44·0	21	3·5	+0·3
	September	2	6	7	9	6	173·3	47	11·4	23	1·2	11	47·1	—0·3	39·0	23	4·9	+1·8
	October	2	10	10	5	4	142·2	40	10·6	21	0·3	30	46·8	+0·4	40·0	30	4·4	+0·7
	November	5	7	5	5	8	153·8	44	10·7	8	0·1	28	45·6	+0·9	36·1	29	3·8	—0·6
	December	6	5	3	11	6	157·2	44	9·9	2	0·2	25	42·5	+2·0	33·1	2	5·8	—1·0
	Year	21	66	90	104	84	2,169·4	49	11·4	...	0·1	...	44·8	+0·4	29·1	II	6·2	+1·2

TABLE VIII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 14 STATIONS DURING EACH MONTH AND THE YEAR 1935.

Station, Latitude and Longitude.	Month.	Bright Sunshine. No. of days with duration. Nil.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month.	Percentage of possible hours of sunshine in the month.	Duration in the month. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal radiation temperature (1½" above ground). Mean minimum.	Departure from normal.	Lowest in the month.	Date.	Mean depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
TRIVANDRUM— Lat. 8° 29′ N. Long. 76° 57′ E.	January	0	1	2	9	19	277·7	77	11·0	24	1·4	28	...	...	...	...	...	...
	February	0	1	3	4	20	249·8	75	11·1	4	2·5	24	...	...	...	...	...	...
	March	0	0	3	8	20	279·5	75	11·0	16, 18	3·5	22	...	...	...	...	...	...
	April	0	4	2	6	18	242·5	66	10·6	15, 30	1·3	2	...	...	...	...	...	...
	May (a)	0	1	5	10	14	245·3	66	10·9	10	2·0	26	...	...	...	...	...	...
	June	3	4	9	6	8	165·1	44	10·7	6	0	22,23,25	...	...	...	...	...	...
	July	3	12	7	6	3	119·5	31	10·2	21	0	3,9,10	...	...	...	...	...	...
	August (a)	2	9	7	10	2	142·8	38	10·5	8	0	4,6	...	...	...	...	...	...
	September (b)	1	3	5	8	12	215·1	61	11·0	24, 26,29	0	2	...	...	...	...	...	...
	October	3	8	6	10	4	151·7	41	9·8	3	0	14,19,29	...	...	...	...	...	...
	November (f)	2	4	9	7	3	134·9	46	10·6	9	0	21,26	...	...	...	...	...	...
	December	1	6	10	11	3	177·4	49	10·6	30	0	26	...	...	...	...	...	...
	Year	15	53	68	95	126	2,401·3	55	11·1	...	0	...	...	...	...	...	...	...
ABADAN— Lat. 30° 21′ N. Long. 48° 16′ E.	January	0	3	4	7	17	241·2	75	9·8	22, 23	1·0	25	...	...	...	...	...	...
	February	1	2	2	8	15	227·9	73	10·6	25, 28	0	3	...	...	...	...	...	...
	March	0	4	0	5	22	268·1	72	11·5	25	0·1	16	...	...	...	...	...	...
	April	0	0	2	2	26	310·8	80	12·0	17, 20	3·1	9	...	...	...	...	...	...
	May	0	0	3	6	22	309·5	73	12·6	23	3·2	12	...	...	...	...	...	...
	June (b)	0	0	0	0	29	355·0	90	13·2	21	11·3	17	...	...	...	...	...	...
	July	0	0	1	1	29	338·4	79	12·3	29	5·4	13	...	...	...	...	...	...
	August	0	0	1	2	28	331·9	81	11·9	18, 22	5·4	17	...	...	...	...	...	...
	September	0	0	1	0	29	319·4	86	11·4	2, 4	4·7	5	...	...	...	...	...	...
	October	0	0	1	5	25	294·3	83	11·0	1	5·8	9	...	...	...	...	...	...
	November	0	8	9	5	8	169·3	53	9·2	20	0·1	17	...	...	...	...	...	...
	December	4	6	4	15	2	152·3	48	9·5	4, 5	0	4 days	...	...	...	...	...	...
	Year	5	23	28	56	252	3,318·1	75	13·2	...	0	...	...	...	...	...	...	...

(a) Observations for 30 days. (b) Observations for 29 days. (f) Observations for 25 days.

TABLE IX.—MEAN HOURLY WIND VELOCITY IN MILES PER HOUR FOR THE YEAR 1935.

Month.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23 24
DACCA (47 FEET).																								
January	0·7	0·9	0·9	0·8	0·7	0·6	0·6	1·4	1·9	2·2	2·6	2·7	3·1	3·0	2·7	2·0	0·9	0·5	0·3	0·5	0·4	0·4	0·6	0·7
February	1·1	1·1	0·7	1·1	0·8	0·7	0·9	1·3	2·2	2·8	3·6	3·9	4·5	4·3	3·9	3·4	2·5	0·7	0·7	0·7	1·0	1·1	1·4	1·1
March	2·1	2·3	2·0	1·9	1·7	1·6	1·8	2·4	2·9	2·7	3·3	3·9	4·2	4·4	3·9	2·9	2·3	1·8	2·2	2·3	2·4	2·2	2·4	2·4
April	2·5	2·2	2·3	2·5	2·2	2·0	3·0	3·9	4·5	4·2	5·0	5·2	6·0	5·6	5·3	5·2	4·7	4·2	3·6	3·5	3·5	3·2	3·6	3·1
May	3·1	2·8	2·5	2·3	2·0	2·5	3·4	4·9	6·1	6·2	6·4	6·1	6·1	5·8	5·4	5·0	4·9	4·6	4·2	3·3	3·5	3·1	3·2	2·8
June	2·3	2·3	2·2	2·4	2·3	2·6	3·4	4·0	4·6	5·2	5·3	5·5	6·4	5·9	5·4	4·5	3·6	3·3	2·8	3·1	2·9	2·8	2·4	2·2
July	1·6	1·9	1·7	1·7	2·0	2·7	3·6	4·3	4·8	4·3	4·2	4·1	4·1	4·4	3·5	3·4	3·5	2·6	1·9	1·8	1·6	1·3	1·5	1·3
August	2·4	1·9	2·1	2·1	2·1	2·3	2·7	3·5	3·7	4·0	4·1	4·4	4·4	4·3	3·8	3·2	3·0	2·3	2·2	1·9	2·4	2·2	2·4	2·5
September	1·3	0·9	1·0	1·3	1·0	1·0	1·5	2·2	2·7	2·8	2·8	2·5	2·7	2·5	2·2	2·0	1·7	1·3	1·2	1·5	1·4	1·2	1·2	1·4
October	0·3	0·4	0·3	0·3	0·3	0·2	0·6	1·2	1·3	1·9	2·4	2·3	2·6	2·5	2·2	1·7	1·3	0·5	0·7	0·5	0·4	0·2	0·3	0·3
November	0·2	0·2	0·2	0·2	0·2	0·1	0·2	0·3	1·3	2·0	3·0	3·3	3·9	3·9	3·5	2·2	0·4	0·1	0·2	0·1	0	0·1	0·2	0·1
December	0·2	0	0·2	0·1	0·2	0·1	0·2	0·6	1·0	1·5	2·4	2·7	2·6	2·4	2·0	1·5	0·4	0·1	0	0·1	0·1	0·2	0·3	0·1
Year	1·5	1·4	1·3	1·4	1·3	1·4	1·8	2·5	3·1	3·3	3·8	4·0	4·2	4·1	3·7	3·1	2·4	1·8	1·7	1·6	1·6	1·5	1·6	1·5
JAMSHEDPUR (50 FEET).																								
January	0·9	0·8	0·7	0·5	0·5	0·4	0·3	0·3	0·9	1·4	2·7	2·9	3·7	4·4	4·1	3·6	2·5	1·2	1·0	1·1	1·2	1·2	1·0	0·8
February	0·5	0·6	0·7	0·7	0·7	0·4	0·6	1·0	1·7	1·9	2·5	2·8	3·5	4·1	3·7	3·1	2·0	0·8	0·3	0·4	0·5	0·5	0·9	0·6
March	1·5	0·9	0·6	0·8	0·3	0·8	0·5	0·9	2·3	2·3	3·6	4·0	4·7	4·9	4·9	3·8	2·8	2·0	1·7	2·0	2·3	2·3	2·2	1·8
April	1·4	0·9	0·7	0·7	1·7	1·4	1·3	2·3	2·9	3·6	4·4	5·3	5·6	5·7	5·3	4·8	4·5	3·4	2·5	2·6	2·5	1·4	0·9	1·3
May	2·4	2·0	1·6	1·4	1·2	0·9	1·3	1·8	2·2	3·4	3·8	4·7	4·9	5·9	6·0	6·3	5·7	6·4	5·5	5·2	4·9	4·5	3·7	3·3
June	2·1	1·4	1·0	1·0	0·8	0·9	1·9	2·5	3·6	3·8	4·3	4·4	4·7	4·5	4·7	6·1	6·2	4·8	5·0	4·1	2·8	2·7	2·0	2·0
July	1·8	1·9	1·7	2·5	2·5	2·7	4·3	5·5	6·3	6·9	7·1	7·2	7·7	7·2	7·0	7·3	6·3	6·0	4·5	3·7	2·9	2·8	2·3	1·9
August	2·2	2·2	1·8	1·6	1·4	1·6	2·6	2·8	4·6	5·4	5·3	6·1	6·0	6·5	6·7	7·1	6·5	5·0	3·4	2·6	3·2	2·4	2·4	2·6
September	1·7	1·3	1·1	1·1	1·1	1·1	2·0	2·7	3·9	4·6	4·6	5·3	5·3	5·1	4·9	4·2	4·3	2·9	2·5	2·8	2·6	2·3	2·4	1·9
October	0·1	0·1	0	0	0·1	0·1	0	1·1	1·8	2·6	3·0	3·4	4·4	3·8	3·3	1·9	0·5	0	0	0·3	0·2	0·2	0·2	0·2
November	0·1	0·2	0·1	0	0	0	0	0·5	1·5	1·8	2·1	2·8	3·8	4·0	3·1	1·8	0·1	0	0	0	0·1	0·2	0·1	0·2
December	0·6	0·4	0·4	0·4	0·3	0·2	0·2	0·8	1·7	1·7	2·2	2·7	3·1	3·4	2·8	1·7	0·7	0·1	0·5	0·4	0·5	0·4	0·5	0·7
Year	1·3	1·1	0·9	0·9	0·9	0·9	1·3	1·9	2·8	3·3	3·8	4·3	4·8	5·0	4·7	4·3	3·5	2·7	2·2	2·1	2·0	1·7	1·5	1·4
AGRA (71 FEET).																								
January	4·1	4·0	3·9	4·0	4·1	4·0	3·8	3·5	2·8	2·8	3·5	4·5	4·7	4·6	5·0	5·4	4·8	3·6	3·6	3·7	3·8	3·9	4·1	4·0
February	3·6	3·5	3·8	3·6	4·0	3·7	3·8	3·7	3·8	4·0	4·5	5·8	5·7	6·6	6·1	6·5	6·2	4·9	4·0	4·1	4·2	4·1	3·9	3·8
March	4·3	4·9	4·7	4·8	4·8	4·8	4·7	4·3	4·2	4·5	4·7	5·3	5·9	6·0	6·5	6·7	6·5	5·4	4·3	4·5	4·7	4·8	4·6	4·3
April	4·1	4·4	4·1	4·0	4·2	3·7	3·3	3·0	3·4	3·9	4·7	5·6	5·9	6·2	6·7	7·2	7·1	7·6	6·0	5·6	5·0	4·6	4·7	4·1
May	5·2	5·1	4·8	4·9	5·0	4·9	4·7	4·8	6·3	7·2	7·7	8·4	8·8	9·1	9·1	9·4	8·8	8·0	5·9	4·9	4·5	4·3	4·5	4·9
June	5·3	5·6	5·2	5·1	5·2	4·9	4·5	6·0	7·8	8·9	8·7	8·9	9·1	8·8	9·8	8·9	8·6	7·7	6·4	6·2	5·9	5·3	5·0	5·4
July	3·6	3·7	3·6	3·5	3·8	3·7	3·7	4·2	4·6	4·7	5·7	5·9	7·0	7·0	7·6	7·1	6·4	6·2	5·9	5·0	4·8	4·7	4·2	3·6
August	3·7	3·3	3·5	3·5	3·6	3·3	3·1	4·6	5·7	6·1	5·9	6·1	6·3	6·8	6·4	6·5	6·0	5·4	4·3	3·8	3·5	3·3	3·5	3·8
September	2·9	2·9	3·0	3·2	3·0	3·1	3·1	3·5	4·7	5·6	5·4	5·8	6·0	6·2	6·8	6·4	5·3	4·4	3·3	3·7	2·9	3·3	3·5	3·2
October	3·0	2·7	3·0	3·0	3·0	2·9	3·0	2·4	2·6	3·1	3·9	4·8	5·2	5·3	5·6	5·2	4·0	2·6	2·3	2·4	2·3	2·0	2·3	2·5
November	3·1	3·6	3·6	3·8	3·5	3·6	3·6	2·8	1·9	2·1	2·8	3·6	4·6	5·2	5·6	5·6	4·3	2·7	2·5	2·8	2·8	3·0	2·8	2·7
December	3·1	3·0	3·1	3·5	3·3	3·3	3·2	3·0	2·3	2·3	3·7	4·2	4·4	4·2	4·5	4·7	4·1	3·3	3·3	3·3	3·5	3·4	3·5	3·5
Year	3·8	3·9	3·9	3·9	4·0	3·8	3·7	3·8	4·2	4·6	5·1	5·7	6·1	6·3	6·6	6·6	6·0	5·1	4·3	4·2	4·0	3·9	3·9	3·8
LAHORE (64 FEET).																								
January	1·7	2·0	2·3	1·9	2	2·0	1·6	1·3	1·4	2·1	2·6	3·5	4·1	3·9	3·7	3·7	2·9	1·7	1·3	1·7	1·5	1·5	1·3	1·4
February	1·5	1·6	1·7	2·0	2·2	2·3	2·1	1·6	2·1	2·7	2·8	3·6	4·6	4·6	5·0	4·5	4·1	2·9	1·6	0·9	1·3	1·3	1·6	1·
March	1·0	1·5	1·3	1·3	1·5	1·6	1·3	1·4	1·9	2·2	2·6	2·7	3·6	4·0	3·9	3·9	3·4	2·5	1·0	0·5	0·5	0·6	0·9	1·2
April	2·2	2·7	2·6	2·4	2·1	1·7	2·3	2·6	2·9	3·1	3·5	3·9	4·5	4·5	4·9	4·5	4·1	3·5	2·7	1·6	2·1	1·5	2·1	2·4
May	1·0	1·2	0·9	1·3	1·4	1·5	1·3	1·6	1·7	2·3	3·1	3·8	3·9	3·9	3·5	3·7	3·4	2·5	1·6	1·4	1·3	1·3	0·8	1·3
June	2·0	1·9	2·1	2·0	2·4	1·7	3·0	3·0	3·8	4·1	4·0	3·9	3·8	4·1	3·9	3·5	3·4	3·0	2·2	2·0	1·7	2·1	2·6	2·4
July	2·0	1·8	2·0	2·1	2·7	2·7	4·1	4·4	4·9	4·5	4·4	4·6	4·7	4·1	3·7	3·5	3·0	2·6	2·3	1·4	1·2	1·5	2·3	2·0
August	1·5	1·4	1·9	2·1	2·3	2·4	2·5	2·8	3·7	3·3	3·6	3·6	3·2	3·2	3·1	3·3	2·4	1·8	2·0	1·3	1·0	0·7	1·1	1·3
September	1·2	1·4	1·4	1·6	2·1	3·1	2·6	3·6	4·0	3·9	3·7	3·6	3·6	4·0	4·2	4·0	2·6	2·1	0·4	0·4	0·6	1·0	1·1	1·3
October	2·6	2·6	3·1	3·9	4·2	3·9	3·9	3·3	3·6	3·6	3·9	4·2	4·4	4·5	4·5	3·8	2·6	1·3	0·7	0 8	1·1	1·7	2·1	1·9
November	1·9	2·4	2·2	2·2	2·0	2·0	2·0	2·4	2·4	2·1	2·6	3·4	3·7	4·0	3·6	2·9	1·9	0·5	0·3	5	0·8	1·2	1·1	1·6
December	2·6	3·2	3·4	3·4	3·5	3·3	3·3	2·5	2·3	2·4	2·7	3·5	4·1	4·5	4·6	4·0	2·8	1·1	1·0	0·8	1·3	1·9	2·3	2·6
Year	1·8	2·0	2·1	2·3	2·4	2·3	2·5	2·5	2·9	3·0	3·3	3·7	4·0	4·1	4·1	3·8	3·1	2·0	1·4	1·1	1·2	1·4	1·6	1·8

"Figures in italics are means of data which are not available for a complete month."

TABLE IX.—MEAN HOURLY WIND VELOCITY IN MILES PER HOUR FOR THE YEAR 1935.

Month.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
PESHAWAR (46 FEET).																								
January	*5·8*	*6·2*	*6 7*	*7·3*	*6·6*	*7·0*	*6·9*	*7·0*	*6·1*	*6·0*	*5·5*	*7·4*	*9·0*	*9·8*	*11·0*	*8·0*	*10·5*	*8·0*	*6·3*	*5 9*	*5·4*	*6·6*	*6·1*	*5·9*
February	*3 7*	*3·9*	*4·1*	*4·9*	*4·3*	*4·1*	*4·7*	*4·6*	*2·7*	*2·5*	*3·7*	*4·9*	*5·7*	*6·1*	*6·9*	*7·0*	*6·5*	*5·5*	*3·7*	*2·8*	*3 1*	*4·3*	*4·7*	*4·4*
March	*2·4*	*2·3*	*2·2*	*3 0*	*3 3*	*3 6*	*2·9*	*2·2*	*2·1*	*1 6*	*2·7*	*3·5*	*3·7*	*4·4*	*4·9*	*5·4*	*5 1*	*4 0*	*2·5*	*1·7*	*1·9*	*2·0*	*1·7*	*2·1*
April	*2·1*	*2·0*	*2·0*	*1·5*	*1 3*	*2·0*	*2·0*	*1·1*	*1·1*	*1·7*	*1·8*	*2·6*	*2·6*	*3·0*	*3 7*	*3·5*	*3·5*	*2·9*	*2·3*	*1·5*	*1·5*	*2·0*	*1·4*	*1·5*
May	*2·6*	*2·8*	*2·5*	*2·1*	*2·2*	*2·2*	*1·9*	*1·8*	*2 3*	*3·3*	*4·2*	*5·0*	*6·2*	*6·2*	*6·5*	*6·2*	*5·7*	*5·4*	*4·0*	*2·6*	*2·5*	*3·2*	*2·9*	*2·4*
June	*4·5*	*3·8*	*4·5*	*3 8*	*3·6*	*2·9*	*2·1*	*3·1*	*4·0*	*5·1*	*6 3*	*7·3*	*8·1*	*9·0*	*8·5*	*7·6*	*8·3*	*8·7*	*8·6*	*7·0*	*6·0*	*5·8*	*5 5*	*5·3*
July	*2·1*	*2·5*	*3·4*	*2·3*	*2·1*	*2·7*	*3·0*	*3·6*	*3·8*	*5·5*	*6·5*	*6·8*	*8·3*	*9 2*	*10 6*	*11·4*	*11·9*	*10·9*	*9·1*	*5 2*	*2·9*	*2·0*	*2·2*	*2·4*
August	*3·7*	*3·7*	*3 0*	*2·7*	*3·3*	*2·9*	*3·7*	*5·4*	*7 7*	*9 4*	*9·6*	*10·1*	*10·7*	*11·5*	*12·7*	*12·8*	*12·1*	*12·8*	*9 8*	*6 9*	*6·5*	*4·7*	*3·1*	*2·7*
September	*2 6*	*3·3*	*3·2*	*2·9*	*2·6*	*1·9*	*2·0*	*2 8*	*3·8*	*6 9*	*8·9*	*10·0*	*11·3*	*11 5*	*11·4*	*11·4*	*10·8*	*10·0*	*5·7*	*2·9*	*2 3*	*2·3*	*2 0*	*1·6*
October	*6·3*	*5 3*	*5·0*	*6·3*	*6·3*	*6·6*	*6·1*	*5 0*	*3·0*	*4·0*	*8·2*	*10·0*	*12 0*	*12·7*	*12·6*	*12·5*	*10·2*	*6·8*	*4·1*	*4·4*	*6·6*	*6 9*	*6·8*	*6·4*
November	*3 7*	*3·0*	*3·1*	*3·1*	*3·5*	*3·3*	*3·0*	*2·7*	*1·5*	*0·6*	*2·3*	*5·3*	*7·6*	*8·0*	*7·8*	*7·0*	*5·8*	*1·5*	*1·0*	*2·7*	*3·8*	*4 0*	*3·6*	*3·5*
December																								
Year																								
DRIGH ROAD (KARACHI) (60 FEET).																								
January	6·9	7·2	7·6	7·4	7·5	7·3	7·5	7·4	7·2	8·4	12·5	13·1	12·3	11·4	11·5	12·1	12·5	12·5	11·0	8·5	7·6	6·3	5·7	6·8
February	4·3	4·3	4·0	4·2	4·4	4·2	3·6	3·8	3·7	4·9	7·3	7·7	8·0	8·2	9·5	10·2	11·5	11·7	10·9	9·6	7·8	5·9	5·1	5·1
March	3·8	3·0	2·6	2·6	2·5	2·2	2·9	2·7	2·6	4·4	5·9	7·3	9·0	10·4	12·0	13·3	14·4	14·9	13·1	10·2	8·1	5·9	4·3	4·0
April	5·2	4·4	4·3	4·8	4·9	4·8	3·4	4·0	6·1	8·0	9·1	9·9	11·2	12·4	14·3	15·8	16·7	16·3	15·1	12·8	11·0	9·6	8·2	6·5
May	7·4	7·5	6·8	6·6	6·6	6·1	6·8	8·7	12·0	13·0	14·0	14·9	15·8	17·3	19·0	19·3	19·3	18·5	16·9	14·8	13·2	10·7	8·8	7·7
June	9·8	10·2	9·1	9·1	8·5	9·2	9·2	11·0	13·6	13·9	14·5	14·8	16·0	17·2	18·7	18·6	19·0	18·3	17·2	15·4	12·9	12·2	11·0	10·3
July	10·9	10·9	10·4	10·4	10·7	10·8	10·5	10·7	12·9	14·5	15·5	15·8	16·4	17·3	18·1	18·6	18·2	17·6	16·3	14·7	13·3	11·7	11·3	11·0
August	12·4	12·3	12·4	11·9	11·7	11·3	10·7	11·5	13·9	14·8	16·0	16·5	17·5	18·2	18·8	18·8	18·6	18·3	17·3	15·8	14·8	14·0	13·3	13·0
September	9·0	8·8	8·7	7·7	8·0	8·1	8·3	8·3	11·1	12·1	13·0	14·1	15·8	16·9	17·1	17·2	16·9	16·4	15·0	12·8	10·9	9·8	8·9	8·3
October	3·9	4·0	3·6	3·9	4·4	4·2	4·5	4·4	4·9	6·6	7·6	8·4	8·8	9·8	10·7	12·1	12·3	11·7	9·8	8·0	5·8	4·2	3·4	3·1
November	1·7	1·7	2·0	2·1	2·3	2·4	2·7	2·3	2·2	3·0	6·1	6·5	7·1	7·5	9·0	10·1	11·6	11·0	9·2	6·9	4·7	2·8	2·1	1·7
December	3·7	4·2	3·8	4·1	4·4	4·3	4·0	4·5	4·0	4·6	7·2	8·4	8·7	8·9	9·0	9·8	10·1	10·1	8·3	6·7	4·7	4·1	3·2	3·1
Year	6·5	6·5	6·3	6·2	6·3	6·2	6·2	6·6	7·9	9·0	10·7	11·5	12·2	13·0	14·0	14·7	15·1	14·8	13·3	11·3	9·6	8·1	7·1	6·7
MADRAS (117 FEET).																								
January	12·6	11·6	11·1	10·4	10·4	10·0	9·7	9·5	9·6	10·4	11·1	11·7	12·2	12·7	12·8	12·9	13·0	12·8	12·9	13·3	13·5	13·7	13·6	12·9
February	8·9	8·3	7·7	7·7	7·0	7·0	7·0	6·4	5·4	6·4	8·2	9·1	10·2	10·6	10·7	10·8	10·9	11·0	10·9	10·7	10·7	10·6	10·1	9·7
March	10·2	9·9	8·9	7·9	7 5	8·1	8·0	7·7	8·3	9·9	11·4	12·9	13·4	14·1	14·7	14·9	14·9	14·4	14·1	14·3	14·4	14·1	13·7	12·7
April	9·4	8·7	8·2	7·6	7·8	7·5	7·6	8 7	9·8	10·5	11·9	13·1	13·5	14·0	14·2	13·9	13·8	13·1	12·3	11·8	11·5	11·1	10·6	10·2
May	11 4	10·2	9·7	9·3	9·7	10·0	10 1	11·5	12·6	13·3	13·5	13·6	14·1	14·4	14·8	14·7	13·9	13 4	13·2	13·5	13·8	13·5	13·1	12·3
June	11 8	11·1	10·3	8·8	8·3	8·3	8·6	9·3	11·0	11·8	11·8	12·8	13·3	13·0	13·1	14·0	12·9	12·5	12·4	12·7	12·7	12·3	12·9	12·5
July	11·9	12·1	11·1	10·9	10·8	11·0	11·3	12·1	13·9	15·2	15·7	15·6	15·3	14·8	14·4	13·6	13·6	13·4	12·9	12·0	12·0	11·6	11·5	11·2
August	11·4	10·8	10·3	9·6	9·4	9·0	9·3	9·1	9·9	10·8	11·1	10·2	10·5	10·9	11·3	11·8	11·5	11·2	10·8	10·4	10·7	10·9	11·2	11·5
September	9·1	9·1	9·5	9·5	9·4	9·0	8·7	10·0	10·9	11·2	11·7	11·9	12·6	12·3	12·5	12·4	11·0	10·7	10·0	10·5	10 2	10·0	10·0	9·1
October	8·7	8·5	8·8	8·6	8·6	8·8	8·5	8·6	8 6	9·5	10·3	10·8	11·3	11·3	11·4	11·3	11·8	11·1	10·9	11·3	9·9	9·4	9·7	9·7
November	12·2	11·5	10·8	10·7	10·6	10·7	11·1	11·0	11·2	12·4	14·0	14·6	15·1	15·5	15·4	15·3	15·0	14·5	14·6	14·8	14·3	14·4	13·7	13·2
December	15·0	14·7	14·4	13·8	13·8	13·3	13·1	13·1	13·5	14·7	15·9	15·9	16·6	16·8	16·4	15·9	16·4	16·1	16·3	16·2	15·9	15·8	15·6	15·6
Year	11·1	10·5	10·1	9·6	9·4	9·4	9·4	9·7	10·4	11·3	12·2	12·7	13·2	13·4	13·5	13·5	13·2	12·9	12·6	12·6	12·5	12·3	12·1	11·7
KODAIKANAL (49 FEET).																								
January	6·0	4·6	4·6	4·6	5·1	5·0	5·4	4·9	4·2	3·9	4·5	4·8	4·6	4·4	4·5	3·9	3·1	3·1	3·2	3·5	4·3	4·8	5·4	5·6
February	5·3	5·4	5·2	5·1	5·4	5·3	5·1	5·2	5·7	6·0	6·1	6·1	5·6	4·7	3·9	3·1	2·2	1·3	1·7	2·3	3·5	3·7	4·5	5·5
March	4·8	4·8	5·4	5·8	6·1	6·2	6·4	6·4	6·8	6·5	7·2	6·8	6·6	6·2	5·4	4·5	3·9	3·4	3·5	3·7	4·5	4·4	5·1	5·2
April	3·6	2·8	2·6	2·8	2·9	3·1	3·2	3·4	4·3	4·0	4·3	4·6	4·2	3·2	3·4	2·9	2·9	2·3	2·7	3·6	3 4	3·3	2·9	3·3
May	3·6	3·4	3·2	3·4	3·6	3·5	3·1	3·3	4·0	4·0	4·7	4·8	4·3	3·8	3·9	3·7	3·7	3·1	4·1	4·8	4·4	4·2	4·1	3·8
June	7·4	7·4	8·0	7·4	6·7	6·7	6·6	5·7	5·2	4·0	4·4	5·0	4·3	5·3	5·6	6·3	6·0	6·1	6·6	7·4	7·0	7·1	7·6	7·8
July	11·6	12·1	12·2	11·8	10·7	11·9	10·5	11·1	11·3	10 0	9·9	9·9	10·2	9·4	10·2	10·1	10·3	11·1	12·0	12·0	12·2	12·3	11·9	12·0
August	6·3	6·6	6·6	6·5	7·2	7·0	6·8	6·5	5·2	4·7	4·9	5·1	4·6	4·4	3·8	4·1	4·4	4·0	4·1	4·4	4·8	5·5	5·7	5·8
September	7·5	7·9	7·5	6·7	6·6	6·9	6·3	6·1	5·7	5·5	6·0	6·4	6·1	6·1	5·2	5·4	5·9	6·1	6·4	6·2	6·3	6·5	6·6	6·9
October	4·5	4·9	4·5	5·4	4·8	5·0	5·5	5·3	5·3	5·0	5·1	5·2	5·2	5·2	5·0	4·0	3·7	4·1	4·6	4·6	4·8	5·0	4 7	4·8
November	6·7	7·3	6·9	7·2	6·9	7·5	7·1	7·4	7·9	6·4	7·1	7·3	6·7	6·6	6 3	5·9	6·2	6 2	6·6	5·9	6·6	6·5	6·6	6·7
December	6·0	6·4	5·9	6·1	6·2	5·8	6·0	6·5	6·9	6·5	6·2	6·5	6·4	5·8	5·8	5·0	4·3	4·6	5·2	5·7	6·2	6·1	6·0	6·2
Year	6·1	6·1	6·1	6·1	6·0	6·2	6·0	6·0	6·0	5·5	5·9	6·0	5·7	5·4	5·3	4·9	4·7	4·6	5·0	5·3	5·7	5·8	5·9	6·1

"Figures in italics are means of data which are not available for a complete month."

TABLE X.—NUMBER OF DAYS IN EACH MONTH ON WHICH THE NILGIRIS WERE VISIBLE FROM KODAIKANAL IN 1935.

Month.	Very clear.	Visible.	Just visible.	Top only visible.	Total.
1	2	3	4	5	6
January	1	21	..	..	22
February	3	13	..	5	21
March	..	..	..	..	..
April	1	..	..	3	4
May	..	..	..	..	..
June	6	4	..	3	13
July	..	3	..	1	4
August	2	3	..	3	8
September	2	4	..	4	10
October	2	6	..	6	14
November	8	1	..	1	10
December	6	1	..	..	
Year	31	56	..	26	113

TABLE XI.—AVERAGE OVER THE 15 CHIEF POLITICAL DIVISIONS OF THE

DIVISION.	JANUARY.			FEBRUARY.			MARCH.			APRIL.			MAY.			JUNE.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	"	"		"	"		"	"		"	"		"	"		"	"	
Burma .	0·04	—0·07	—64	0·11	—0·11	—50	0·22	—0·25	—53	1·80	+0·48	+36	5·64	—3·09	—35	14·49	—1·44	—9
Assam . .	0·15	—0·52	—78	2·06	+0·52	+34	2·45	—1·56	—39	4·99	—4·09	—45	12·74	+0·68	+6	26·29	+8·00	+44
Bengal . .	0·29	—0·05	—15	0·92	—0·02	—2	0·84	—0·84	—50	2·66	—0·63	—19	4·16	—3·59	—46	12·29	—2·37	—16
Bihar and Orissa .	0·84	+0·32	+62	0·72	—0·21	—23	0·30	—0·43	—59	0·78	—0·03	—4	0·55	—1·93	—78	4·93	—3·56	—42
United Provinces.	1·11	+0·35	+46	0·84	+0·16	+24	0·09	—0·38	—81	0·58	+0·38	+132	0·01	—0·67	—99	1·58	—2·81	—64
Punjab . .	2·17	+1·14	+111	1·52	+0·63	+71	0·54	—0·30	—36	1·68	+1·14	+211	0·06	—0·51	—89	0·27	—1·47	—84
North-West Frontier Province.	2·33	+1·07	+85	1·77	+0·57	+47	1·25	—0·61	—33	3·36	+1·81	+117	0·19	—0·60	—76	0·36	—0·51	—59
Sind . . .	0·67	+0·44	+191	0·47	+0·18	+62	0·03	—0·20	—87	0·55	+0·44	+400	0·09	—0·07	—44	0·03	—0·47	—94
Rajputana . .	0·59	+0·29	+97	0·22	—0·05	—19	0·06	—0·14	—70	0·44	+0·28	+175	0·05	—0·45	—90	0·89	—1·34	—60
Bombay .	0·16	+0·04	+33	0	—0·09	—100	0	—0·11	—100	0·17	—0·21	—55	0·18	—0·86	—83	8·14	—0·60	—7
Central In .	0·41	—0·05	—11	0·30	—0·08	—21	0	—0·22	—100	0·28	+0·11	+65	0·02	—0·46	—96	2·95	—1·93	—40
Central Provinces.	0·45	—0·06	—12	0·40	—0·40	—50	0·04	—0·49	—92	1·06	+0·59	+126	0·04	—0·63	—94	5·50	—2·37	—30
Hyderabad .	0·73	+0·52	+248	0·11	—0·17	—61	0·06	—0·37	—86	1·86	+1·18	+174	0·07	—0·82	—92	5·52	+0·56	+11
Mysore . .	0 20	+0·08	+67	0·05	—0·08	—62	0·21	—0·10	—32	1·88	+0·42	+29	2·35	—1·23	—34	4·36	—0·44	—9
Madras . .	1·01	+0 27	+36	0·12	—0·32	—73	0·40	—0·31	—44	2·30	+0·54	+31	1·00	—2·58	—72	5·60	—2·37	—3
Mean of India .	0·89	+0·23	+50	0·53	—0·02	—4	0·33	—0·37	—53	1·45	+0·23	+19	1·78	—1·37	—43	6·66	—1·30	—16

MONTHLY AND ANNUAL RAINFALL, WITH ITS DEPARTURE FROM NORMAL IN 1935.

JULY.			AUGUST.			SEPTEMBER.			OCTOBER.			NOVEMBER.			DECEMBER.			YEAR.		
Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
"	"		"	"		"	"		"	"		"	"		"	"		"	"	
20·64	+3·40	+20	13·82	—3·08	—18	14·36	+2·19	+18	8·41	+1·92	+30	4·17	+1·96	+89	0·30	—0·18	—37	84·00	+1·73	+2
15·64	—3·15	—17	20·24	+3·35	+20	14·95	+2·28	+18	1·38	—4·34	—76	0·93	—0·02	—2	0·16	—0·20	—56	101·98	+0·95	+1
10·02	—5·10	—34	19·04	+4·86	+34	9·51	—1·38	—13	0·64	—4·37	—87	0·04	—0·75	—95	0·04	—0·12	—75	60·45	—14·36	—19
11·99	—0·60	—5	15·43	+2·54	+20	10·95	+2·34	+27	0·17	—2·92	—94	0	—0·60	—100	0·03	—0·10	—77	46·69	—5·18	—10
11·62	+0·12	+1	9·73	—1·47	—13	7·06	+0·67	+10	0·05	—1·29	—96	0·08	—0·09	—53	0·77	+0·48	+166	33·52	—4·60	—12
6·01	+0·68	+13	5·27	—0·18	—3	1·68	—1·11	—40	0·11	—0·20	—65	0·26	+0·14	+117	0·33	—0·05	—13	19·90	—0·09	0
2·48	—0·12	—5	3·38	+0·17	+5	0·55	—0·66	—55	0·42	+0·08	+24	0·14	—0·16	—53	0·33	—0·22	—40	16·56	+0·82	+5
3·12	+0·51	+20	0·09	—1·28	—65	0·15	—0·48	—76	0	—0·05	—100	0	—0·05	—100	0	—0·08	—100	5·80	—1·11	—16
10·60	+3·87	+58	3·89	—2·91	—43	5·10	+1·82	+55	0·46	0	0	0·03	—0·10	—77	0·35	+0·18	+106	22·68	+1·45	+7
14·12	—0·75	—5	7·60	—1·95	—20	6·56	+0·08	+1	3·13	+0·61	+24	0·23	—0·51	—69	0·09	—0·09	—50	40·38	—4·44	—10
15·28	+4·21	+38	6·71	—4·86	—42	7·65	+2·09	+38	0·57	—0·38	—40	0·03	—0·39	—93	0·60	+0·41	+216	34·80	—1·55	—4
20·46	+7·30	+55	8·69	—3·63	—29	9·49	+2·33	+33	0·37	—1·59	—81	0·01	—0·49	—98	0·19	—0·13	—41	46·70	+0·43	+1
8·13	+0·93	+13	6·91	+0·25	+4	7·02	—0·63	—8	3·01	+0·43	+17	0·11	—0·78	—88	0·03	—0·24	—89	33·56	+0·86	+3
6·92	—0·24	—3	7·58	+2·35	+45	3·98	—1·21	—23	7·59	+2·29	+43	0·25	—2·18	—90	0·32	—0·13	—29	35·69	—0·47	—1
8·11	—0·22	—3	7·15	+0·47	+7	5·58	—0·46	—8	8·77	+1·04	+13	4·37	—1·61	—27	2·17	+0·08	+4	46·58	—5·42	—10
12·52	+1·23	+11	9·48	—0·88	—8	7·88	+0·78	+11	2·01	—0·36	—11	1·15	—0·14	—11	0·44	—0·02	—4	45·77	—1·99	—4

TABLE XII.—AVERAGE OVER THE 33 SUB-DIVISIONS OF THE MONTHLY AND ANNUAL

SUB-DIVISION.	JANUARY.					FEBRUARY.					MARCH.				
	RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			"	"				"	"				"	"	
1. Bay Islands	0·5	—0·8	0·13	—1·07	—89	0	—0·7	0	—0·49	—100	0	—0·7	0·01	—0·44	—98
2. Lower Burma	0·1	—0·2	0·07	—0·04	—36	0	—0·3	0·02	—0·21	—91	0·7	0	0·40	—0·14	—26
3. Upper Burma	0	—0·3	0·01	—0·10	—91	0·5	—0·1	0·17	—0·05	—23	0·2	—0·8	0·06	—0·36	—86
4. Assam	0·5	—1·1	0·15	—0·52	—78	4·8	+1·4	2·06	+0·52	+34	4·5	—1·9	2·45	—1·56	—39
5. Bengal	0·7	0	0·29	—0·05	—15	2·1	+0·5	0·92	—0·02	—2	1·7	—0·8	0·84	—0·84	—50
6. Orissa	0·1	—0·7	0·08	—0·37	—82	0·9	—0·9	0·53	—0·66	—55	1·3	—0·6	0·66	—0·41	—38
7. Chota Nagpur	2·9	+1·5	1·63	+0·88	+117	1·7	—0·4	0·73	—0·42	—37	1·5	—0·3	0·49	—0·42	—46
8. Bihar	2·0	+1·1	0·84	+0·40	+91	1·8	+0·3	0·80	+0·10	+14	0·1	—1·0	0·02	—0·45	—94
9. United Provinces, East	2·1	+0·7	0·67	+0·04	+6	1·3	0	0·66	+0·11	+20	0	—0·8	0	—0·32	—100
10. Do. do. West	3·1	+1·2	1·50	+0·63	+72	2·1	+0·5	1·00	+0·20	+25	0·4	—0·9	0·17	—0·42	—71
11. Punjab, East and North	3·1	+0·9	2·56	+1·36	+113	3·1	+1·1	1·51	+0·51	+51	1·2	—0·7	0·58	—0·32	—36
12. Do. Southwest	2·3	+1·1	1·01	+0·50	+98	3·5	+2·2	1·54	+1·01	+191	1·6	—0·1	0·45	—0·20	—31
13. Kashmir	7·5	+2·4	5·74	+2·13	+59	5·2	+0·2	3·07	—0·45	—13	5·4	—1·0	4·12	—0·48	—9
14. North-West Frontier Province	3·3	+0·9	2·33	+1·07	+85	3·9	+1·3	1·77	+0·57	+47	3·2	—0·4	1·25	—0·61	—33
15. Baluchistan	5·4	+2·8	2·24	+1·05	+88	6·0	+3·1	3·44	+2·26	+192	0·9	—1·9	0·25	—0·96	—79
16. Sind	1·8	+1·2	0·67	+0·44	+191	0·9	+0·2	0·47	+0·18	+62	0·2	—0·3	0·03	—0·20	—87
17. Rajputana, West	1·0	+0·5	0·46	+0·27	+142	0·4	—0·1	0·12	—0·11	—48	0·3	—0·2	0·12	—0·06	—32
18. Do. East	1·2	+0·3	0·65	+0·29	+81	1·0	+0·3	0·27	—0·02	—7	0·1	—0·5	0·03	—0·19	—86
19. Gujarat	0·7	+0·5	0·31	+0·22	+244	0	—0·2	0	—0·10	—100	0	—0·2	0	—0·07	—100
20. Central India, West	0·9	+0·1	0·30	—0·09	—23	0·4	—0·3	0·15	—0·15	—50	0	—0·4	0	—0·17	—100
21. Do. do. East	2·0	+0·6	0·78	+0·11	+16	1·2	—0·2	0·82	+0·15	+22	0	—0·9	0	—0·39	—100
22. Berar	1·2	+0·5	0·55	+0·16	+41	0·2	—0·5	0·11	—0·26	—69	0	—0·7	0	—0·33	—100
23. Central Provinces, West	1·8	+0·7	0·64	—0·01	—2	0·8	—0·6	0·39	—0·31	—44	0·1	—1·1	0·01	—0·56	—98
24. Do. do. East	0·7	—0·2	0·25	—0·22	—47	1·3	—0·5	0·58	—0·54	—48	0·2	—1·1	0·08	—0·54	—87
25. Konkan	0·1	—0·1	0·03	—0·07	—70	0	—0·1	0	—0·05	—100	0	—0·1	0·01	—0·05	—83
26. Bombay Deccan	0·3	0	0·12	—0·03	—20	0	—0·2	0·01	—0·08	—89	0	—0·3	0	—0·14	—100
27. Hyderabad, North	1·4	+1·0	0·60	+0·38	+173	0·3	—0·3	0·12	—0·18	—60	0	—0·8	0	—0·43	—100
28. Do. South	2·0	+1·7	0·87	+0·67	+335	0·2	—0·3	0·09	—0·17	—65	0·2	—0·5	0·12	—0·31	—72
29. Mysore	0·4	+0·2	0·20	+0·08	+67	0·1	—0·1	0·05	—0·08	—62	0·5	—0·1	0·21	—0·10	—32
30. Malabar	1·5	+0·3	1·05	+0·17	+19	0·7	—0·2	0·34	—0·20	—37	1·9	—0·5	0·95	—0·49	—34
31. Madras, Southeast	2·9	+1·6	1·67	+0·68	+69	0·2	—0·5	0·06	—0·41	—87	0·5	—0·3	0·29	—0·22	—43
32. Do. Deccan	0·4	0	0·12	—0·09	—43	0·1	—0·1	0·04	—0·10	—71	0·3	—0·1	0·06	—0·15	—71
33. Do. Coast, North	0·3	—0·2	0·17	—0·21	—55	0	—0·7	0·01	—0·39	—97	0·4	—0·4	0·16	—0·34	—68

RAINFALL AND NUMBER OF RAINY DAYS WITH THEIR DEPARTURES FROM NORMAL IN 1935.

APRIL.					MAY.					JUNE.					JULY.				
RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
		"	"				"	"				"	"				"	"	
5·0	+2·5	3·15	+1·60	+103	13·5	+0·2	20·65	+8·34	+68	18·0	—0·5	15·95	—1·27	—7	18·5	0	13·90	—0·48	—3
2·4	+0·5	1·99	+0·59	+42	10·7	—1·9	9·48	—2·59	—21	21·8	—0·4	22·78	—2·73	—11	25·9	+1·7	37·02	+7·71	+26
3·0	+0·5	1·64	+0·37	+29	4·2	—3·8	2·41	—3·52	—59	11·0	+0·1	7·52	—0·36	—5	10·9	+0·6	6·88	—0·22	—3
6·2	—5·1	4·99	—4·09	—45	15·7	+1·7	12·74	+0·68	+6	20·8	+3·0	26·29	+8·00	+44	17·9	—1·2	15·64	—3·15	—17
3·5	—1·0	2·66	—0·63	—19	4·9	—3·9	4·16	—3·59	—46	12·0	—2·4	12·29	—2·37	—16	14·9	—1·8	10·02	—5·10	—34
3·9	+1·4	2·15	+0·78	+57	1·1	—3·8	0·53	—2·76	—84	8·7	—2·9	5·75	—4·07	—41	19·1	+3·9	22·54	+9·53	+73
2·1	+0·6	0·94	+0·26	+38	0·5	—3·1	0·16	—1·86	—92	7·4	—3·2	4·82	—3·95	—45	15·5	+0·3	12·04	—0·83	—6
0·1	—1·1	0·04	—0·56	—93	1·0	—2·3	0·73	—1·55	—68	6·0	—2·6	4·58	—3·15	—41	9·6	—3·8	7·02	—5·25	—43
1·3	+0·8	0·43	+0·24	+126	0	—1·3	0·01	—0·67	—99	3·1	—2·4	2·76	—2·04	—43	13·6	+1·0	10·50	—1·09	—9
1·9	+1·1	0·71	+0·41	+137	0·1	—1·4	0·02	—0·65	—97	1·2	—3·6	0·58	—3·46	—86	13·9	+2·5	12·58	+1·15	+10
3·7	+2·5	1·93	+1·38	+251	0·3	—1·1	0·06	—0·56	—90	0·8	—2·1	0·27	—1·77	—87	8·4	+1·6	7·21	+0·93	+15
2·3	+1·0	0·93	+0·41	+79	0·3	—0·7	0·07	—0·36	—84	0·9	—0·5	0·27	—0·55	—67	3·4	+0·3	2·42	—0·08	—3
7·4	+1·7	4·94	+1·43	+41	1·4	—2·4	0·52	—1·45	—74	2·6	—1·6	1·38	—1·10	—44	8·2	+0·5	6·55	—0·57	—8
6·4	+3·2	3·36	+1·81	+117	0·5	—1·2	0·19	—0·60	—76	1·1	—0·6	0·36	—0·51	—59	4·7	+1·1	2·48	—0·12	—5
3·7	+2·0	1·42	+0·73	+106	0·6	—0·1	0·16	—0·13	—45	0·2	—0·4	0·06	—0·24	—80	1·2	—0·5	0·58	—0·41	—41
0·9	+0·7	0·55	+0·44	+400	0·2	—0·1	0·09	—0·07	—44	0·1	—0·6	0·03	—0·47	—94	3·6	+1·0	3·12	+0·51	+20
1·0	+0·6	0·36	+0·20	+125	0·2	—0·7	0·04	—0·39	—91	0·6	—1·4	0·20	—1·10	—85	7·8	+3·3	5·96	+2·53	+74
1·2	+0·8	0·49	+0·33	+206	0·2	—1·1	0·05	—0·49	—91	2·4	—1·5	1·26	—1·48	—54	14·4	+4·6	13·11	+4·60	+54
0·2	+0·1	0·06	+0·03	+100	0	—0·6	0·01	—0·32	—97	4·3	—1·2	3·32	—1·79	—35	15·7	+3·3	14·78	+2·25	+18
0·7	+0·4	0·21	+0·06	+40	0·1	—1·0	0·02	—0·46	—96	4·6	—1·3	3·20	—1·64	—34	15·8	+4·1	14·09	+3·56	+34
1·1	+0·6	0·51	+0·27	+113	0·1	—1·0	0·02	—0·43	—96	4·5	—1·2	2·09	—2·93	—58	18·1	+4·3	19·26	+6·38	+50
1·9	+1·2	1·07	+0·83	+346	0·2	—1·0	0·04	—0·51	—93	9·0	+1·0	6·69	+0·62	+10	18·0	+5·8	15·77	+6·59	+72
1·9	+1·2	0·96	+0·66	+220	0·1	—1·8	0·02	—0·57	—97	7·7	—0·9	5·21	—2·04	—28	20·2	+5·4	21·51	+8·19	+61
2·5	+0·9	1·12	+0·39	+53	0·1	—1·7	0·05	—0·74	—94	7·7	—2·3	5·06	—4·28	—46	21·2	+5·0	22·29	+7·01	+46
0·1	—0·6	0·05	—0·33	—87	0·3	—1·6	0·18	—1·40	—89	17·8	—0·6	25·34	0	0	28·3	+2·4	34·31	—4·57	—12
0·7	—0·6	0·29	—0·32	—52	0·6	—1·8	0·30	—1·02	—77	7·7	—0·2	5·20	—0·02	0	11·2	0	6·44	—1·39	—18
2·4	+1·1	1·76	+1·23	+232	0	—1·6	0·02	—0·75	—97	9·0	+1·3	7·41	+1·93	+35	11·9	+0·3	8·95	+1·04	+13
3·7	+1·9	1·97	+1·12	+132	0·3	—1·9	0·12	—0·91	—88	6·0	—0·9	3·42	—0·96	—22	12·3	+1·6	7·22	+0·81	+13
3·4	+0·7	1·88	+0·42	+29	5·0	—0·6	2·35	—1·23	—34	6·5	—0·7	4·36	—0·44	—9	9·5	—0·2	6·92	—0·24	—3
6·7	+1·1	4·26	+0·49	+13	3·8	—5·1	1·95	—5·32	—73	17·0	—3·5	14·42	—9·44	—40	21·4	+1·5	22·67	+0·38	+2
3·2	+1·2	2·11	+0·82	+64	1·4	—2·4	0·79	—1·74	—69	2·9	0	2·10	+0·55	+35	2·5	—1·3	0·97	—1·22	—56
2·3	+1·1	1·40	+0·78	+126	1·9	—1·1	0·69	—0·96	—58	5·3	+0·9	3·37	+1·00	+42	6·1	—0·2	3·52	+0·28	+9
1·8	+0·2	0·95	0	0	0·9	—2·3	0·50	—1·60	—76	5·4	—1·4	3·44	—1·50	—30	12·0	+2·0	7·36	+0·73	+11

TABLE XI.I—AVERAGE OVER THE 33 SUB-DIVISIONS OF THE MONTHLY AND ANNUAL

SUB-DIVISION.	AUGUST.					SEPTEMBER.					OCTOBER.				
	RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
			"	"				"	"				"	"	
1. Bay Islands	14·5	−3·2	12·39	−0·69	−5	19·0	−1·0	22·79	+4·72	+26	11·0	−4·7	7·18	−3·89	−35
2. Lower Burma	19·2	−4·6	20·10	−7·04	−26	21·5	+3·0	21·71	+4·44	+26	11·0	+0·7	9·74	+2·05	+27
3. Upper Burma	11·1	−0·5	8·49	+0·27	+3	11·0	+0·3	8·19	+0·31	+4	8·8	+1·4	7·30	+1·82	+33
4. *Assam*	19·1	+1·2	20·24	+3·35	+20	15·9	+2·1	14·95	+2·28	+18	2·2	−4·6	1·38	−4 34	−76
5. Bengal	16·9	+0·3	19·04	+4·86	+34	11·7	−0·5	9·51	−1·38	−13	0·8	−4·5	0·64	−4·37	−87
6. Orissa	11·8	−3·8	7·34	−5·69	−44	13·4	+1·6	9·11	+0·21	+2	0·7	−4·8	0·41	−4·34	−91
7. Chota Nagpur	18·7	+2·2	18·42	+4·58	+33	11·0	+0·9	7·93	−0·10	−1	0·1	−3·7	0·03	−2·90	−99
8. Bihar	15·7	+2·3	17·95	+5·53	+45	10·2	+1·3	13·22	+4·49	+51	0·2	−2·5	0·12	−2·22	− 5
9. United Provinces, East	13·5	+0·7	11·80	+0·45	+4	7·5	+0·1	7·20	+0·30	+4	0	−1·7	0	−1·88	−100
10. Do. do. West	10·1	−1·3	7·95	−3·12	−28	7·3	+1·3	6·94	+0·99	+17	0·3	−0·6	0·09	−0·78	−90
11. Punjab, East and North	6·7	−0·1	6·35	−0·07	−1	2·8	−0·5	2·17	−1·18	−35	0·5	−0·1	0·15	−0·23	−61
12. Do. Southwest	2·8	−0·3	2·03	−0·55	−21	0·5	−0·9	0·22	−0·91	−81	0	−0·2	0	−0·11	−100
13. Kashmir	8·8	+0·4	7·51	−0·19	−2	3·0	−1·0	1·43	−2·10	−59	1·9	+0·2	0·86	−0·22	−20
14. North-West Frontier Province	5·0	+1·0	3·38	+0·17	+5	1·3	−0·7	0·55	−0·66	−55	1·2	+0·5	0·42	+0·08	+24
15. Baluchistan	1·1	−0·5	0·53	−0·44	−45	0·1	−0·3	0·02	−0·23	−92	0	−0·3	0	−0·15	−100
16. Sind	0·9	−1·4	0·69	−1·28	−65	0·2	−0·6	0·15	−0·48	−76	0	0	0	−0·05	−100
17. Rajputana, West	2·0	−3·0	1·55	−2·49	−62	3·3	+0·9	2·27	+0·25	+12	0·7	+0·3	0·25	−0·06	−19
18. Do. East	6·9	−2·9	5·15	−3·15	−38	8·3	+3·4	6·64	+2·67	+67	1·2	+0·5	0·57	+0·04	+8
19. Gujarat	8·5	−2·2	4·00	−4·08	−50	7·1	+1·5	6·06	+1·47	+32	·9	−0·2	0·38	−0·52	−58
20. Central India, West	9·5	−2·4	5·91	−5·19	−47	9·7	+3·4	8·24	+3·00	+57	1·2	+0·1	0·73	−0·08	−10
21. Do. do. East	10·9	−3·2	9·40	−3·75	−29	8·0	+0·3	5·69	−0·94	−14	0·1	−1·5	0·03	−1·39	−98
22. Berar	9·3	−1·0	5·04	−1·91	−27	10·0	+2·2	8·46	+2·61	+45	2·0	−0·3	0·93	−0·66	−42
23. Central Provinces, West	14·5	0	9·86	−2·97	−23	12·9	+3·6	9·38	+1·79	+24	0 5	−1·9	0·33	−1·50	−82
24. Do. do. East	15·1	−0·8	9·84	−5·11	−34	13·2	+3·4	10·14	+2·57	+34	0·3	−2·6	0·10	−2·16	−96
25. Konkan	23·0	−1·3	16·10	−7·69	−32	15·0	−0·1	15·06	+2·64	+21	5·7	+0·1	3·58	−0·73	−17
26. Bombay Deccan	10·9	+1·5	6·97	+1·54	+28	6·8	−1·4	3·84	−1·78	−32	7·8	+3·3	4·83	+1·85	+62
27. Hyderabad, North	10·1	−0·6	7·49	+0·40	+6	11·0	+0·9	8·17	−0·16	−2	4·8	+1·7	3·14	+0·96	+44
28. Do. South	8·7	−1·4	6·26	+0·09	+1	9·6	0	5·75	−1·15	−17	5·7	+1·5	2·87	−0·15	−5
29. Mysore	11·3	+2·6	7·58	+2·35	+45	7·1	−1·0	3·98	−1·21	−23	8·9	+1·1	7·59	+2·29	+43
30. Ma'abar	15·7	−0·3	10·64	−1·91	−15	12·5	+1·1	8·97	+1·15	+15	14·4	+1·0	15·21	+4·17	+37
31. Madras, Southeast	7·4	+2·0	5·89	+2·28	+63	4·0	−2·1	2·81	−1·69	−38	8·9	+0·1	7·50	+0·41	+6
32. Do. Deccan	10·0	+3·4	8·09	+4·19	+107	5·3	−2·7	3·33	−2·44	−42	6·9	+1·2	4·85	+0·69	+17
33. Do. Coast, North	8·4	−1·3	5·34	−1·77	−25	10·3	+0·9	7·81	+0·83	+12	5·8	−1·7	5·69	−1·08	−15

RAINFALL AND NUMBER OF RAINY DAYS WITH THEIR DEPARTURES FROM NORMAL IN 1935—*contd.*

NOVEMBER.					DECEMBER.					YEAR.				
RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
		"	"				"	"				"	"	
12·5	+3·0	12·97	+5·39	+71	7·5	+2·5	5·51	+0·37	+19	120·0	—3·4	114·63	+12·59	+12
5·0	+1·6	4·58	+1·94	+73	1·2	+0·5	0·59	+0·08	+16	119·5	+0·6	128·48	+4·06	+3
3·8	+0·9	3·82	+1·98	+108	0·2	—0·6	0·06	—0·40	—87	64·7	—2·3	46·55	—0·26	—1
1·6	+0·1	0·93	—0·02	—2	0·3	—0·5	0·16	—0·20	—56	110·2	—4·9	101·98	+0·95	+1
0·1	—0·9	0·04	—0·75	—95	0·1	—0·2	0·04	—0·12	—75	69·4	—15·2	60·45	—14·36	—19
0	—1·4	0	—1·43	—100	0·2	—0·2	0·07	—0·14	—67	61·2	—12·2	49·17	—9·35	—16
0	—0·7	0	—0·39	—100	0·1	—0·2	0·03	—0·11	—79	61·5	—6·1	47·22	—5·26	—10
0	—0·4	0	—0·28	—100	0	—0·2	0	—0·09	—100	46·7	—8·9	45·33	—3·03	—6
0	—0·3	0·01	—0·18	—95	1·5	+1·0	0·54	+0·32	+145	43·9	—2·2	34·58	—4·72	—12
0·5	+0·2	0·15	0	0	2·2	+1·5	0·97	+0·62	+177	43·1	+0·5	32·66	—4·43	—12
0·8	+0·5	0·32	+0·19	+146	0·9	0	0·35	—0·09	—20	32·3	+2·0	23·46	+0·15	+1
0·2	0	0·09	+0·01	+13	0·7	+0·2	0·26	+0·04	+18	18·5	+2·1	9·29	—0·79	—8
2·8	+1·9	1·61	+1·14	+243	2·1	—1·0	0·70	—1·26	—64	56·3	+0·3	38·43	—3·07	—7
0·6	+0·1	0·14	—0·16	—53	0·6	—0·5	0·33	—0·22	—40	31·3	+4·7	16·56	+0·82	+5
0·3	—0·3	0·10	—0·16	—62	0·4	—1·1	0·17	—0·47	—73	19·9	+2·5	8·97	+0·85	+10
0	—0·1	0	—0·05	—100	0	—0·3	0	—0·08	—100	8·8	—0·3	5·80	—1·11	—16
0·1	0	0·04	—0·04	—50	0·2	0	0·05	—0·06	—55	26·6	+9·2	11·42	—1·06	—8
0·1	—0·2	0·02	—0·14	—87	1·3	+0·8	0·50	+0·29	+138	38·3	+4·5	28·74	+2·75	+11
0	—0·3	0	—0·19	—100	0	—0·1	0·01	—0·03	—75	37·4	+0·4	28·93	—3·13	—10
0·1	—0·6	0·04	—0·41	—91	1·4	+1·0	0·52	+0·35	+206	44·4	+3·1	33·41	—1·22	—4
0	—0·6	0	—0·33	—100	2·3	+1·7	0·87	+0·61	+235	48·3	—1·1	39·47	—2·64	—6
0·1	—0·9	0·04	—0·53	—93	0·2	—0·5	0·06	—0·33	—85	52·1	+5·8	38·76	+6·29	+19
0	—0·8	0·01	—0·57	—98	0·9	+0·3	0·32	—0·01	—3	61·4	+4·6	48·64	+2·10	+5
0	—0·7	0	—0·41	—100	0·5	—0·1	0·17	—0·12	—41	62·8	—0·7	49·68	—4·15	—8
0·9	—0·6	0·34	—0·69	—67	0·1	—0·2	0·07	—0·07	—50	91·3	—2·8	95·07	—13·01	—12
0·6	—1·0	0·34	—0·65	—66	0·3	—0·1	0·14	—0·14	—50	46·9	—0·8	28·48	—2·18	—7
0·2	—1·1	0·11	—0·69	—86	0·2	—0·3	0·06	—0·26	—81	51·3	+1·6	37·83	+3·47	+10
0·1	—1·8	0·11	—0·88	—89	0	—0·4	0	—0·21	—100	48·8	—0·5	28·80	—2·05	—7
0·8	—3·0	0·25	—2·18	—90	0·8	0	0·32	—0·13	—29	54·3	—1·1	35·69	—0·47	—1
8·4	—0·8	6·67	—0·48	—7	2·6	0	1·66	—0·12	—7	106·6	—5·4	88·89	—11·60	—12
6·9	—1·5	6·24	—1·22	—16	5·0	+0·8	4·15	+0·78	+23	45·8	—2·4	34·58	—0·98	—3
0·3	—3·1	0·10	—2·09	—95	0·2	—0·5	0·08	—0·33	—80	39·1	—1·2	25·65	+0·78	+3
0·4	—3·3	0·41	—3·28	—89	0·2	—0·7	0·10	—0·74	—88	45·4	—9·4	31·94	—9·30	—23

TABLE XIII.—AVERAGE OVER THE 15 CHIEF POLITICAL DIVISIONS OF THE ACTUAL RAINFALL WITH ITS DEPARTURE FROM NORMAL FOR THE FOUR SEASONS OF THE YEAR, AND FOR THE WHOLE YEAR, 1935.

Division.	January and February.			March to May.			June to September.			October to December.			Whole Year.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	"	"		"	"		"	"		"	"		"	"	
Burma	0·15	−0·18	−55	7·66	−2·86	−27	63·31	+1·07	+2	12·88	+3·70	+40	84·00	+1·73	+2
Assam	2·21	0	0	20·18	−4·97	−20	77·12	+10·48	+16	2·47	−4·56	−65	101·98	+0·95	+1
Bengal	1·21	−0·07	−5	7·66	−5·06	−40	50·86	−3·99	−7	0·72	−5·24	−88	60·45	−14·36	−19
Bihar and Orissa	1·56	+0·11	+8	1·63	−2·39	−59	43·30	+0·72	+2	0·20	−3·62	−95	46·69	−5·18	−10
United Provinces	1·95	+0·51	+35	0·68	−0·72	−51	29·99	−3·49	−10	0·90	−0·90	−50	33·52	−4·60	−12
Punjab	3·69	+1·77	+92	2·28	+0·33	+17	13·23	−2·08	−14	0·70	−0·11	−14	19·90	−0·09	0
North-West Frontier Province	4·10	+1·64	+67	4·80	+0·60	+14	6·77	−1·12	−14	0·89	−0·30	−25	16·56	+0·82	+5
Sind	1·14	+0·62	+119	0·67	+0·17	+34	3·99	−1·72	−30	0	−0·18	−100	5·80	−1·11	−16
Rajputana	0·81	+0·24	+42	0·55	−0·31	−36	20·48	+1·44	+8	0·84	+0·08	+11	22·68	+1·45	+7
Bombay	0·16	−0·05	−24	0·35	−1·18	−77	36·42	−3·22	−8	3·45	+0·01	0	40·38	−4·44	−10
Central India	0·71	−0·13	−15	0·30	−0·57	−66	32·59	−0·49	−1	1·20	−0·36	−23	34·80	−1·55	−4
Central Provinces	0·85	−0·46	−35	1·14	−0·53	−32	44·14	+3·63	+9	0·57	−2·21	−79	46·70	+0·43	+1
Hyderabad	0·84	+0·35	+71	1·99	−0·01	−1	27·58	+1·11	+4	3·15	−0·59	−16	33·56	+0·86	+3
Mysore	0·25	0	0	4·44	−0·91	−17	22·84	+0·46	+2	8·16	−0·02	0	35·69	−0·47	−1
Madras	1·13	−0·05	−4	3·70	−2·30	−38	26·44	−2·58	−9	15·31	−0·49	−3	46·58	−5·42	−10
Mean of India	1·22	+0·21	+21	3·56	−1·51	−30	36·49	−0·17	0	4·50	−0·52	−10	45·77	−1·99	−4

TABLE XIV.—AVERAGE OVER THE 33 SUB-DIVISIONS OF THE ACTUAL RAINFALL WITH ITS DEPARTURE FROM NORMAL FOR THE FOUR SEASONS OF THE YEAR AND FOR THE WHOLE YEAR, 1935.

SUB-DIVISION.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO SEPTEMBER.			OCTOBER TO DECEMBER.			WHOLE YEAR.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1	2	3		5	6	7	8	9	10	11	12	13	14	15	16
	"	"		"	"		"	"		"	"		"	"	
1. Bay Islands	0·13	—1·56	—92	28·81	+9·50	+66	65·03	+2·28	+4	25·66	+2·37	+10	114·63	+12·59	+12
2. Lower Burma	0·09	—0·25	—74	11·87	—2·14	—15	101·61	+2·38	+2	14·91	+4·07	+38	128·48	+4·06	+3
3. Upper Burma	0·18	—0·15	—45	4·11	—3·51	—46	31·08	0	0	11·18	+3·40	+44	46·55	—0·26	—1
4. Assam	2·21	0	0	20·18	—4·97	—20	77·12	+10·48	+16	2·47	—4·56	—65	101·98	+0·95	+1
5. Bengal	1·21	—0·07	—5	7·66	—5·06	—40	50·86	—3·99	—7	0·72	—5·24	—88	60·45	—14·36	—19
6. Orissa	0·61	—1·03	—63	3·34	—2·39	—42	44·74	—0·02	0	0·48	—5·91	—92	49·17	—9·35	—16
7. Chota Nagpur	2·36	+0·46	+24	1·59	—2·02	—56	43·21	—0·30	—1	0·06	—3·40	—98	47·22	—5·26	—10
8. Bihar	1·64	+0·50	+44	0·80	—2·56	—76	42·77	+1·62	+4	0·12	—2·59	—96	45·33	—3·03	—6
9. United Provinces, East.	1·33	+0·15	+13	0·44	—0·75	—63	32·26	—2·38	—7	0·55	—1·74	—76	34·58	—4·72	—12
10. United Provinces West.	2·50	+0·89	+50	0·90	—0·66	—42	28·05	—4·44	—14	1·21	—0·16	—12	32·66	—4·43	—12
11. Punjab, East and North.	4·07	+1·87	+85	2·57	+0·50	+24	16·00	—2·09	—12	0·82	—0·13	—14	23·46	+0·15	+1
12. Punjab, South-west.	2·55	+1·51	+145	1·45	—0·15	—9	4·94	—2·09	—30	0·35	—0·06	—15	9·29	—0·79	—8
13. Kashmir	8·81	+1·68	+24	9·58	—0·45	—4	16·87	—3·96	—19	3·17	—0·34	—10	38·43	—3·07	—7
14. North-West Frontier Province.	4·10	+1·64	+67	4·80	+0·60	+14	6·77	—1·12	—14	0·89	—0·30	—25	16·56	+0·82	+5
15. Baluchistan	5·68	+3·31	+140	1·83	—0·36	—16	1·19	—1·32	—53	0·27	—0·78	—74	8·97	+0·85	+10
16. Sind	1·14	+0·62	+119	0·67	+0·17	+34	3·99	—1·72	—30	0	—0·18	—100	5·80	—1·11	—16
17. Rajputana, West	0·58	+0·16	+38	0·52	—0·25	—32	9·98	—0·81	—8	0·34	—0·16	—32	11·42	—1·06	—8
18. Do. East	0·92	+0·27	+42	0·57	—0·35	—38	26·16	+2·64	+11	1·09	+0·19	+21	28·74	+2·75	+11
19. Gujarat	0·31	+0·12	+63	0·07	—0·36	—84	28·16	—2·15	—7	0·39	—0·74	—65	28·93	—3·13	—10
20. Central India, West.	0·45	—0·24	—35	0·23	—0·57	—71	31·44	—0·27	—1	1·29	—0·14	—10	33·41	—1·22	—4
21. CentralIndia, East	1·60	+0·26	+19	0·53	—0·55	—51	36·44	—1·24	—3	0·90	—1·11	—55	39·47	—2·64	—6
22. Berar	0·66	—0·09	—12	1·11	—0·01	—1	35·96	+7·91	+28	1·03	—1·52	—60	38·76	+6·29	+19
23. Central Provinces, West.	1·03	—0·32	—24	0·99	—0·47	—32	45·96	+4·97	+12	0·66	—2·08	—76	48·64	+2·10	+5
24. Central Provinces, East.	0·83	—0·76	—48	1·25	—0·89	—42	47·33	+0·19	0	0·27	—2·69	—91	49·68	—4·15	—8
25. Konkan	0·03	—0·12	—80	0·24	—1·78	—88	90·81	—9·62	—10	3·99	—1·49	—27	95·07	—13·01	—12
26. Bombay, Deccan	0·13	—0·11	—46	0·59	—1·48	—71	22·45	—1·65	—7	5·31	+1·06	+25	28·48	—2·18	—7
27. Hyderabad, North	0·72	+0·20	+38	1·78	+0·05	+3	32·02	+3·21	+11	3·31	+0·01	0	37·83	+3·47	+10
28. Do. South	0·96	+0·50	+109	2·21	—0·10	—4	22·65	—1·21	—5	2·98	—1·24	—29	28·80	—2·05	—7
29. Mysore	0·25	0	0	4·44	—0·91	—17	22·84	+0·46	+2	8·16	—0·02	0	35·69	—0·47	—1
30. Malabar	1·39	—0·03	—2	7·16	—5·32	—43	56·70	—9·82	—15	23·64	+8·57	+18	88·89	—11·60	—12
31. Madras, Southeast	1·78	+0·27	+18	3·19	—1·14	—26	11·77	—0·08	—1	17·89	—0·03	0	34·58	—0·98	—3
32. Do. Deccan	0·16	—0·19	—54	2·15	—0·33	—13	18·31	+3·03	+20	5·03	—1·73	—26	25·65	+0·78	+3
33. Do. Coast, North.	0·18	—0·60	—77	1·61	—1·94	—55	23·95	—1·71	—7	6·20	—5·05	—45	31·94	—9·30	—23

TABLE XV.—AVERAGE OVER THE 33 SUB-DIVISIONS OF ACTUAL NUMBER OF RAINY DAYS WITH THEIR DEPARTURES FROM NORMAL FOR THE FOUR SEASONS OF THE YEAR AND FOR THE WHOLE YEAR, 1935.

SUB-DIVISION.	JANUARY AND FEBRUARY.		MARCH TO MAY.		JUNE TO SEPTEMBER.		OCTOBER TO DECEMBER.		WHOLE YEAR.	
	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11
1. Bay Islands	0·5	—1·5	18·5	+2·0	70·0	—4·7	31·0	+0·8	120·0	—3·4
2. Lower Burma	0 1	—0·5	13·8	—1·4	88·4	—0·3	17·2	+2·8	119·5	+0·6
3. Upper Burma	0 5	—0·4	7·4	—4·1	44·0	+0·5	12·8	+1·7	64·7	—2·3
4. Assam	5·3	+0·3	27·1	—5·3	73·7	+5·1	4·1	—5·0	110·2	—4·9
5. Bengal	2·8	+0·5	10·1	—5·7	55·5	—4·4	1·0	—5·6	69·4	—15·2
6. Orissa	1 0	—1·6	6·3	—3·0	53·0	—1·2	0·9	—6·4	61·2	—12·2
7 Chota Nagpur	4·6	+1·1	4·1	—2·8	52·6	+0·2	0·2	—4·6	61·5	—6·1
8. Bihar	3·8	+1·4	1·2	—4·4	41·5	—2·8	0·2	—3·1	46·7	—8·9
9. United Provinces, East	3·4	+0·7	1·3	—1·3	37·7	—0·6	1·5	—1·0	43·9	—2·2
10. Do. Do. West	5·2	+1·7	2·4	—1·2	32·5	—1·1	3·0	+1·1	43·1	+0·5
11. Punjab, East and North	6·2	+2·0	5·2	+0·7	18·7	—1·1	2·2	+0·4	32·3	+2·0
12. Do. Southwest	5·8	+3·3	4·2	+0·2	7·6	—1·4	0·9	0	18·5	+2·1
13. Kashmir	12·7	+2·6	14·2	—1·7	22·6	—1·7	6·8	+1·1	56·3	+0·3
14. North-West Frontier Province	7·2	+2·2	10·1	+1·6	12·1	+0·8	2·4	+0·1	31·8	+4·7
15. Baluchistan	11·4	+5·9	5·2	0	2·6	—1·7	0·7	—1·7	19·9	+2·5
16. Sind	2·7	+1·4	1·3	+0·3	4·8	—1·6	0	—0·4	8·8	—0·3
17. Rajputana, West	10·4	+9·4	1·5	—0·3	13·7	—0·2	1·0	+0·3	26·6	+9·2
18. Do. East	2·2	+0·6	1·5	—0·8	32·0	+3·6	2·6	+1·1	38·3	+4·5
19. Gujarat	0·7	+0·3	0·2	—0·7	35·6	+1·4	0·9	—0·6	37·4	+0·4
20. Central India, West	1·3	—0·2	0·8	—1·0	39·6	+3·8	2·7	+0·5	44·4	+3·1
21. Do. Do. East	3·2	+0·4	1·2	—1·3	41·5	+0·2	2·4	—0·4	48·3	—1·1
22. Berar	1·4	0	2·1	—0·5	46·3	+3·0	2·3	—1·7	52·1	+5·8
23. Central Provinces, West	2·6	+0·1	2·1	—1·2	55·3	+3·1	1·4	—2·4	61·4	+4·6
24. Do. Do. East	2·0	—0·7	2·8	—1·9	57·2	+5·3	0·8	—3·4	62·8	—0·7
25. Konkan	0·1	—0·2	0·4	—2·3	84·1	+0·4	6·7	—0·7	91·3	—2·8
26. Bombay, Deccan	0·3	—0·2	1·3	—2·7	36·6	—0·1	8·7	+2·2	46·9	—0·8
27 Hyderabad, North	1·7	+0·7	2·4	—1·3	42·0	+1·9	5·2	+0·3	51·3	+1·6
28. Do. South	2·2	+1·4	4·2	—0·5	36·6	—0·7	5·8	—0·7	48·8	—0·5
29. Mysore	0·5	+0·1	8·9	0	34·4	+0·7	10·5	—1·9	54·3	—1·1
30. Malabar	2·2	+0·1	12·4	—4·5	66·6	—1·2	25·4	+0·2	106·6	—5·4
31. Madras, Southeast	3·1	+1·1	5·1	—1·5	16·8	—1·4	20·8	—0·6	45·8	—2·4
32. Do. Deccan	0·5	—0·1	4·5	—0·1	26·7	+1·4	7·4	—2·4	39·1	—1·2
33. Do. Coast, North	0·3	—0·9	3·1	—2·5	36·1	—0·3	5·9	—5·7	45·4	—9·4

TABLE XVI.—SHOWING RAINFALL OF 10″ AND OVER, WITH AMOUNTS IN THE PRECEDING AND FOLLOWING 24 HOURS, DURING THE YEAR 1935.

Province and District.	Station.	Date.	AMOUNT.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
BURMA.			"	"	"
Bassein	Diamond Island	Aug. 30	0·08	13·57	0·60
Bhamo	Sinlumkaba	Sept. 5	7·23	12·88	0·90
ASSAM.					
Coalpara	Kachugaon	June 5	8·80	10·35	0·90
Sylhet	Lallakhal	,, 4	2·44	14·04	10·48
Do.	Do.	,, 5	14·04	10·48	5·78
Khasi and Jaintia Hills.	Cherrapunji Police Station.	,, 4	3·61	12·55	22·70
Do.	Do.	,, 5	12·55	22·70	15·86
Do.	Do.	,, 6	22·70	15·86	8·07
Do.	Do.	,, 8	8·07	10·43	15·98
Do.	Do.	,, 9	10·43	15·98	0·34
Do.	Do.	,, 20	1·07	10·15	3·98
Do.	Cherrapunji Welsh Mission House.	,, 4	3·34	14·40	23·40
Do.	Do.	,, 5	14·40	23·40	16·24
Do.	Do.	,, 6	23·40	16·24	10·02
Do.	Do.	,, 7	16·24	10·02	10·20
Do.	Do.	,, 8	10·02	10·20	18·19
Do.	Do.	,, 9	10·20	18·19	0·45
Do.	Do.	,, 20	1·41	10·24	1·82
Cachar (North-Cachar Hills).	Jatinga Valley	,, 6	4·58	10·09	3·65
Lushai Hills	Lunglch	,, 3	4·00	10·91	2·00
Do.	Sherkawn	,, 3	3·85	10·09	2·69
Khasi and Jaintia Hills.	Cherrapunji Police Station.	July 1	4·77	12·84	3·85
Do.	Cherrapunji Welsh Mission House.	,, 1	6·60	12·06	4·60
Do.	Mawphlang	Aug. 21	3·60	14·16	6·90
Do.	Cherrapunji Police Station.	,, 19	0·79	11·12	22·61
Do.	Do.	,, 20	11·12	22·61	16·00
Do.	Do.	,, 21	22·61	16·00	9·51
Do.	Cherrapunji Welsh Mission House.	,, 11	8·55	11·90	5·55
Do.	Do.	,, 20	9·66	24·54	21·47
ASSAM—*contd.*					
Khasi and Jaintia Hills—*contd.*	Cherrapunji Welsh Mission House—*contd.*	Aug. 21	24·54	21·47	9·96
BENGAL.					
Jalpaiguri	Kumargram	June 5	7·19	15·00	2·00
Chittagong	Kutubdia	,, 21	4·45	11·85	0
Cooch Behar	Cooch Behar	,, 28	0·22	12·07	1·07
Jalpaiguri	Kalchini	Aug. 25	2·76	10·12	0·84
Rangpur	Ulipur	Sept. 17	0·30	13·57	2·92
Mymensingh	Netrokona	,, 5	0	11·40	1·55
BIHAR AND ORISSA.					
Champaran	Motihari	July 3	0·62	10·03	0·61
Bhagalpur	Sultanganj	Aug. 10	2·00	12·50	0·82
Saran	Siwan	Sept. 19	1·91	19·23	0·17
Muzaffarpur	Sitamarhi	,, 18	3·70	12·63	2·72
Do.	Pupri	,, 18	0	10·01	1·80
Darbhanga	Sahar Balwa	,, 18	2·35	11·45	1·55
Santal Parganas	Naya Dumka	,, 22	0·02	10·51	0
UNITED PROVINCES.					
Gorakhpur	Hata	,, 5	0·06	11·95	1·98
BOMBAY.					
Kolaba	Matheran	June 19	2·42	11·29	1·68
Thana	Thana	,,	1·14	10·92	0·62
Savantvadi	Amboli	July 5	2·36	10·00	4·70
CENTRAL PROVINCES.					
Sarangarh	Sarangarh	,, 19	1·10	10·45	1·30
MADRAS.					
Chingleput	Attipet	Oct. 18	0·31	10·93	0·39
Travancore State III Quilon Division.	Kayankulam	,, 18	0	10·47	0·53
Madura	Kodaikanal	Nov. 16	1·86	13·63	0·41
Cochin State	Chittur	,, 17	1·25	10·25	0·50

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GOVERNMENT OF INDIA

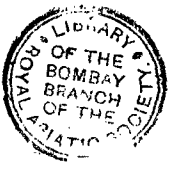
METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1935.

ANNUAL SUMMARY

PART B

SNOWFALL



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Published by the Authority of the Government of India

UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.,

Director General of Observatories

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ANNUAL SUMMARY.

PART B.

SNOWFALL.

This part contains a summary of the reports of snowfall in the mountain regions to the north and northwest of India. These reports are collected by local officers from the local residents, headmen of villages, or from travellers who have passed through the region, and are then transmitted to this office.

The amount of snowfall is usually measured by finding the depth of undisturbed snow lying on the ground and such measurements are given in feet and inches. At places provided with raingauges the amount of snow collected in the gauge is melted and measured as rain and the amounts are given in inches and decimals of an inch.

Cold weather period, January and February.

I.—AFGHANISTAN.

Kabul.—Snow fell in Kabul and its neighbourhood almost every week during January and February and remained on the ground till the end of February. Snowfall in Afghanistan is reported to have been very heavy this year.

II.—BALUCHISTAN.

Quetta.—At Quetta light snow or sleet fell on several days in each of the months January and February. The precipitation is reported to have been slightly below normal in January and considerably above it in February.

III.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Hazara.*—Snow is reported to have fallen on about fourteen days in January and twelve days in February. The amounts both in January and February were above normal; the snowline is said to have descended to 2,800 ft. in January and risen to 4,000 ft. in February. The accumulations were above normal at the end of January and about normal at the end of February.

The following table gives the approximate total depths of falls in each month and the depths of accumulation at the end of each month :—

Locality.	JANUARY.		FEBRUARY.	
	Falls.	Accumulations.	Falls.	Accumulations.
	Ft.	Ft.	Ft.	Ft.
Narang	11	7	8	7½
Pludran	10	6	5	6
Kagan	8½	5	3	3
Jared	3	¼	¼	..
Malakandi	¾	¼	¼	..
Sundigali	12½	3	2	1½
Jachha	10½	3	2	1
Thandiani	10	6½	5½	4
Dungagali	9½	9	4	4
Birangali	2½	2½	¼	..

(*b*) *Dir, Swat and Chitral.*—No information was received.

(*c*) *Khyber Agency.*—Snowfall in January and February was heavier than usual on all hills over 5,000 ft. above sea-level. Snow fell and lay to a depth of 3 in. at Landikotal (3,600 ft.) on January 29th.

(*d*) *Kohat.*—Fort Lockhart had about 3 ft. of snow in January and 1 ft. in February.

(*e*) *Waziristan.*—In North Waziristan, snowfall on the hills, specially on Masdak and Shoidar, was heavier than usual. No information was received from South Waziristan.

(*f*) *Dera Ismail Khan.*—The snowfall on the Suleiman range was above normal, and the accumulations were consequently deeper than usual.

IV.—KASHMIR.

(*a*) *Skardu.*—Snow fell at the station and on the neighbouring peaks on about eleven days in January and eight days in February. The falls were heavy and the accumulations at the end of each month are also reported to have been deeper than usual, being estimated at 7 ft. at the end of January and 10 ft. at the end of February.

(*b*) *Dras.*—Two heavy snow storms were reported in January and three in February. The snowfall for the season was above normal. The accumulations at the Zojila and Mushkoo passes are estimated at 15 ft. at the end of either month, which is much above the average.

(*c*) *Srinagar.*—Frequent light to moderate, and a few heavy falls of snow were received both in the mountains and in the main valley during January and February. The amounts were above normal in January and nearly normal in February. The accumulations on the surrounding mountain ranges were said to be normal at the end of both January and February.

(*d*) *Kargil.*—Snow fell on nine days in each of the months January and February. Snow lay in the passes to an estimated depth of 15 ft. at the end of January and 20 ft. at

the end of February. The snowfall for the season, as well as the accumulations, were above normal.

V.—Punjab.

(*a*) *Rawalpindi.*—Snow fell on eleven occasions in January and on four occasions in February at Murree and on the neighbouring peaks. The snowfall was very heavy in January, amounting to about 9 ft. at Murree.

(*b*) *Kulu* (*Kangra District*).—On the high ranges of the Himalayas in the Kangra and Palampur tahsils there were heavy falls beginning with the second fortnight of January. In the Kulu subdivision there was also heavy snowfall in places above 3,000 ft. The accumulations appear to have been deeper than usual.

(*c*) *Kilba* (*Simla District*).—There were four heavy falls in January and two in February. Snowfall was much above normal. The snowline descended to about 5,500 ft. in January and rose to 7,500 ft. in February. The accumulations were stated to be above normal at the neighbouring passes.

VI.—United Provinces.

(*a*) *Almorah.*—Snowfall is reported to have been heavy in January in the various localities of the district and the accumulations at the end of the month were above normal. In February the falls did not exceed the normal.

(*b*) *Garhwal.*—Snowfall in the higher valleys of the district amounted to a total depth of 2½ ft. in January and 2 ft. in February.

VII.—Assam.

(*a*) *Kamrup.*—Except for a little snowfall on the Poonakha route there was no snowfall in the district. Snowfall was reported as below the average for the season.

(*b*) *Sadiya Frontier Tract.*—Snowfall was lighter than usual.

(*c*) *Baliapara Frontier Tract.*—Falls of snow not exceeding 2 ft. are reported to have occurred on the Pankim La and Piri La passes.

Hot Weather Period, March to May.

I.—Afghanistan.

Kabul.—Snow fell on the 13th and 14th March; it was light in Kabul, but was heavy on the hills. The high mountains were covered with thick snow until May.

II.—Baluchistan.

Quetta.—The hills surrounding Quetta had the usual amount of snow for the season. On a number of days in April, though Quetta had rainfall only, the hills had a fairly good amount of snowfall. Some snow was lying on the high peaks up to the first week of May.

III.—North-West Frontier Province.

(*a*) *Hazara.*—Snowfall was observed on the surrounding hills on eleven days in March, the total fall being above the average. The accumulation at the end of the season was about the average.

(*b*) *Dir, Swat and Chitral.*—Snow fell on the high ranges and passes during May. Accumulations at the end of the period were reported to be far above normal in all the parts of this region.

(*c*) *Khyber Agency.*—Occasional falls of snow occurred during March, the final fall being on the 13th-14th. There were considerable accumulations on the high mountains till later than usual, but the passes were open in May.

(*d*) *Kurram.*—No reports were received for March and April. In May falls of snow occurred on the hills in the first and third weeks. The accumulations on the peaks of the Safed Koh at the end of the period were above the average.

(*e*) *Kohat.*—A light snowfall of about ¼ in. is reported from Fort Lockhart in April.

(*f*) *North Waziristan.*—Snowfall on the hills is reported to have been heavy. The last fall was about the middle of April. The gorges continued covered with snow till the end of May.

(*g*) *South Waziristan.*—No reports were received for March and April. There was no snowfall in May. The accumulated snow drifts above 9,000 ft. remained longer than usual.

(*h*) *Dera Ismail Khan.*—Snowfall on the Suleiman range was reported to be heavy; owing to this and to cooler weather than usual, accumulations of snow are reported to have lasted about a month longer than usual.

IV.—Kashmir.

(*a*) *Skardu.*—Snow fell on three days in March, one day in April and four days in May. The snowfall is reported to have been above the average in March and May, less than the average in April, and above average for the season as a whole. The depths of snow on well-known peaks were estimated at 13 ft. at the end of March, 8 ft. at the end of April and 5 ft. at the end of May.

(*b*) *Dras.*—Snowstorms occurred on the neighbouring passes and mountains on four days in March, one day in April and two days in May. The amounts were above normal in March and below normal in April and May. On the Mushkoo and Zojila passes deep accumulations of about 12 ft. are reported at the end of March and April; and of 7 ft., which is slightly above normal, at the end of May.

(*c*) *Srinagar.*—A few moderate to heavy falls occurred on the surrounding mountains in the second half of March and the first half of April, and several light falls during the same period and also during May. According to the reports, snowfall amounts were above normal in March, normal in April and below normal in May. The snow accumulations at the end of the period were estimated to be above the average.

(*d*) *Kargil.*—Moderate to heavy falls of snow occurred on seven days in March and light falls on two days in April.

In May there was no snowfall. For the season as a whole the snowfall was heavier than usual. Accumulations on the Zojila pass are reported as about 12 ft. at the end of March and above normal at the end of May.

(*e*) *Sonamarg.*—No reports were received for March and April. In May there were a few light falls of snow on the mountains only. Accumulations at the end of May on the passes amounted to about 8 ft. which is much greater than the normal depth.

(*f*) *Leh.*—No information was received for March and April. There was no snow in May. The passes were open a month earlier than usual and the snowline was reported to have retreated to a level of 15,000 to 16,000 ft. at the end of the period.

V.—Punjab.

(*a*) *Rawalpindi.*—There were two light snow-storms in March-April on the Murree peaks. Snow melted away before the end of the latter month.

(*b*) *Chamba.*—There were occasional light falls of snow during the period on elevations above 11,000 ft. Accumulations of snow on well-known passes and peaks at the end of the period were much above the average.

(*c*) *Kulu (Kangra District).*—Falls of snow occurred at elevations above 6,000 ft. in March, and above 7,000 ft. in April. The accumulations at the end of the season at the Rohtang and Hampta passes were about 8 ft. and were above normal.

(*d*) *Kilba (Simla District).*—Snow fell on five days in March and on thirteen days in April. Except for one light fall at Kilba, snowfall was confined to elevations of 8,000 ft. and above. In May snow fell on two days and was confined to elevations above 11,000 ft. The snowfall of the period was heavier than usual; and the accumulations at the end of each month were reported to be much above the normal. The passes continued to be blocked till the end of May.

VI.—United Provinces.

(*a*) *Almorah.*—The snowfall was heavier than the normal. The estimated depth of accumulations on the Nuwe pass and other passes of the district were much above the average throughout the season.

(*b*) *Garwhal.*—No information was received about the snowfall of March and April; there was no fall in May. The snow accumulations at the end of May were reported to be above the average.

VII.—Assam.

(*a*) *Kamrup.*—No snowfall appears to have occurred during March and April. The Tasigong and the Poonakha routes were both free from snow.

(*b*) *Sadiya Frontier Tract.*—The only information which can be gathered from the report received is that the snowfall if any, and the accumulations, were much less than usual.

(*c*) *Baliapara Frontier Tract.*—No snowfall occurred during the period and there were no accumulations by the end of April.

South-West Monsoon Period, June to September.

JUNE AND JULY.

I.—Afghanistan.

Kabul.—The Paghman range had one heavy fall of snow on the 25th June; there were two heavy falls during this month, on the 15th and the 16th, on the northern slopes of the Shibar pass and on the mountain ranges to the north of the Hindu Kush. The snowfall was heavier than usual in June. The accumulations at the end of the season were, however, about normal.

II.—North-West Frontier Province.

(*a*) *Hazara.*—The amount of snowfall during the two months was estimated as equivalent to a total depth of 8 in. at elevations of 17,500 ft.; localities at lower altitudes reported lesser amounts, down to light falls only at 10,000 ft. The accumulations at the end of July ranged from 9 in. at 10,000 ft. to 5 ft. 6 in. at 17,500 ft.

(*b*) *Dir, Swat and Chitral.*—Chitral and Malakand reported snowfalls in June at heights over 10,000 and 18,000 ft. respectively. There was no snow in Drosh. The accumulations at the end of the season were reported as deeper than usual owing to cooler weather.

(*c*) *Khyber Agency.*—There was no snowfall in the neighbourhood of Tirah. As usual, snow existed at the end of the season on the tops of the Gurdama, Adina and Malaka peaks.

(*d*) *Kurram.*—There were no snowfalls in the valley and the adjacent region. The accumulations on the peaks of the Safed Koh were above normal.

(*e*) *Waziristan.*—No report was received from North Waziristan. There was no snowfall in South Waziristan.

III.—Kashmir.

(*a*) *Skardu.*—There were three falls of snow in June and two in July. The snowline was reported to have descended down to 11,000 ft. during the season; at the end of the season there was some snow lying on the ground only at elevations above 12,000 ft.

(*b*) *Dras.*—There were two snowfalls in June on the Zojila and Mushkoo passes, but no fall in July. The accumulations at the end of the season were about normal.

(*c*) *Srinagar.*—No snow fell either in June or in July. The accumulations at the end of the season, in particular on the Pir Panjal range, were greater than usual.

(*d*) *Gulmarg.*—Several light to moderate falls of snow were observed on the Afarwat mountains in June and one light fall in July. Accumulations in the gorges and on the sides of the Handibal and the Afarwat mountains were about normal.

(*e*) *Kargil.*—Light falls occurred in the mountains. The depth of accumulations at the passes is reported as about 2 ft. at the end of June and a few inches only at the end of July.

(*f*) *Sonamarg.*—No snow fell in either month. The depth of snow on the Zojila and the Dachinur passes was reported as about 3 ft.

(*g*) *Leh.*—One snowfall was reported in July. Accumulations melted earlier than usual; all the passes were free of snow before the end of July.

IV.—Punjab.

(*a*) *Chamba.*—There were two falls of snow in June and one in July. Accumulations existed at altitudes down to 10,000 ft. and their average depth was estimated to be above normal.

(*b*) *Kulu* (*Kangra District*).—There was no snowfall in the populated areas. Some snowfall was observed in June only at altitudes above 10,000 ft.

(*c*) *Kilba* (*Simla District*).—Light snowfall was observed at altitudes above 15,000 ft. once only, in June. There was no snowfall in July. The accumulations, however, were reported as deeper than usual.

V.—United Provinces.

(*a*) *Almorah.*—The snowfall at the principal localities, namely, Byans, Chaudans, Malla Danpur, Malla Johar and Malla Dharma appears to have been fairly heavy in either month, according to the reports of the patwaris. The accumulations at the passes were reported to be deeper than usual at the end of July.

(*b*) *Garhwal.*—Snowfall was observed in June only at altitudes above 11,500 ft. The amount was estimated as equivalent to a total depth of not more than 6 inches.

AUGUST AND SEPTEMBER.

I.—Afghanistan.

No reports were received.

II.—North-West Frontier Province.

No reports were received, except from the Kurram Valley, where no snowfall occurred in either month.

III.—Kashmir.

(*a*) *Skardu.*—Two light falls of snow were reported in August and three in September, at elevations above 10,000 ft. The amount was about the average. The snowline is said to have descended lower than is usual in this season.

(*b*) *Dras.*—There was no snowfall in August; in September there were three falls, the amounts on each occasion being about 3 in. on the passes and 6 in. on the higher elevations. The amount for the season was about normal. There was no snow at the Zojila and the Mushkoo passes at the end of either month.

(*c*) *Srinagar.*—There was no snowfall in August; in September there were two falls. The amount for the period was about the average. Some accumulations of snow existed on the surrounding mountains at the end of August, but only a very thin layer remained at the end of September.

(*d*) *Gulmarg.*—One light fall of snow was observed on the mountains in August and one light and three moderate falls in September, the moderate falls descending down to the Khelanmarg. The total amount was about the average. The accumulations on the Afarwat and the Handibal ranges at the end of the period were thin as usual.

(*e*) *Kargil.*—There was no snowfall in August; in September snow fell only at the higher levels. The accumulations at the passes were estimated as about ½ ft. which is less than the average.

IV.—Punjab.

Kilba (*Simla District*).—No snowfall occurred in August; several falls occurred at high elevations towards the end of September, the snow descending down to the level of 11,000 ft. The amount for the season was above the average. There was very little snow left on the passes at the end of August, but most of the well-known passes had a cover of snow at the end of September, and the Charang pass was blocked.

V.—United Provinces.

Almorah.—Snowfall occurred in both the months. The total snowfall for the season was more than the average. The accumulations at the passes were also deeper than usual at the end of either month.

The Retreating Monsoon period, October to December.

I.—Afghanistan.

Kabul.—No snow fell in Kabul. Snow is reported to have fallen thrice in November and December on the Paghman hills and on the Hindu Kush ranges. Only one of these was moderately heavy. Snowfall for the season was below normal.

II.—Baluchistan.

Quetta.—Light snowfall was observed on the surrounding mountains once in November and once in December.

III.—North-West Frontier Province.

(*a*) *Hazara.*—No report was received for October and November; presumably the winter snowfall began, as usual,

only in December. The following table gives the total depth of falls during December and the accumulations at the end of the month, as estimated by the villagers :—

Locality.	Falls.	Accumulations.
	Ft.	Ft.
Narang	4¼	2½
Pludran	3	2
Kagan	3¾	1
Jared	1½	*Nil*
Malakandi	1	*Nil*
Sundigali	3½	¾
Jachha	3	½
Thandiani	2½	1
Dungagali	2	1½
Birangali	¼	*Nil*

Snowfall was above the average in the inner hills and below normal in the outer hills.

(*b*) *Dir, Swat and Chitral.*—A report was received only from Drosh, which reported a fall of about 8 in. depth on the surrounding hills in October and a fall giving about 1 in. depth at Drosh in December. The higher peaks were covered with snow, but the lower hills were free from snow at the end of December.

(*c*) *Khyber Agency.*—No snow fell in November. Falls estimated as equivalent to a total depth of 1 ft. were observed on the peaks of Adina, Gurdama and Malaka in December.

(*d*) *Kurram.*—Snowfall occurred between the 23rd-25th in October, 12th-14th in November and between the 4th-5th and 9th-12th in December. The amount for the season appears to have been below normal. The accumulations at the end of the season were reported as below the average.

(*e*) *Kohat.*—Fort Lockhart reported 9 in. of snowfall in December.

(*f*) *Waziristan.*—No report was received from North Waziristan. South Waziristan reported light falls at elevations between 6,000 to 11,000 ft. during December.

IV.—Kashmir.

(*a*) *Skardu.*—Snowfall was observed on the surrounding mountains on three days in October, five days in November and eight days in December. Six of the falls in December extended down to the station itself. The amount of the snowfall for the season appears to have been normal, or slightly above it. The accumulations at the higher levels at the end of the period were estimated as 3 to 5 ft. deep.

(*b*) *Dras.*—There were two snowfalls in October, four in November and seven in December. The falls were light to moderate except on the 25th November, when it was heavy and snow lay to a depth of 2½ ft. The total fall of the season was said to be above normal. On the Zojila and Mushkoo passes the accumulations at the end of the season were estimated as about 9 ft. which is above normal.

(*c*) *Srinagar.*—The first falls of the season were observed in the mountains in the second week of October. November and December had several moderate to heavy falls in the mountains. Srinagar itself had two falls on the 7th and 8th November, an early date for snowfall in the valley. The amounts were about normal in October and December and above normal in November.

(*d*) *Kargil.*—There was one light fall of snow over the passes in October. Three falls occurred in each of the months November and December in Kargil itself. The depth of the accumulations at the end of the period was estimated at 6 ft. on the higher peaks and passes.

(*e*) *Sonamarg.*—Frequent light falls of snow occurred in October and November.

(*f*) *Gurez.*—Light falls were reported in November and December.

(*g*) *Leh.*—Several light falls occurred in Leh during the period. The passes were open.

V.—Punjab.

(*a*) *Kulu* (*Kangra District*).—In the Kulu tahsil there were two falls, one in November and one in December, the snowfall extending down to places at 4,500 ft. level. In Saraj one heavy fall occurred in places down to the level of 5,500 ft. Accumulations existed towards the end of December at altitudes above 6,000 and 7,500 ft. respectively in Kulu proper and in Saraj.

(*b*) *Kilba* (*Simla District*).—Snow-storms were observed on the Kilba Kailas range, at elevations of 10,000 ft. and above, for the first time on the 2nd of October, an early date for snowfall in the region; snow fell on three more occasions in this month. November had three light to moderate falls, between the 6th and the 9th, at places down to 8,500 ft. level. In December there was light snowfall from the 5th to 10th, and the snowline descended to 8,000 ft. The fall was somewhat heavier than usual in November, but the amount for the season as a whole was below the average. The accumulations at the passes were estimated at 2 to 3 ft. The passes, except the Charang pass, which was closed, were open until towards the end of December.

VI.—United Provinces.

(*a*) *Almorah.*—Light to moderate falls were reported from Malla Darma, Chaudans and Malla Johar and heavy falls from Malla Danpur. The accumulations at the passes appear to have been about normal.

(*b*) *Garhwal.*—There was one moderately heavy snowfall in each of the three months, October to December. The falls were confined to the mountains and the higher valleys in the north of the district.

VII.—ASSAM.

(*a*) *Kamrup.*—There was no snowfall at the station or on the Tasigong and Poonakha routes. The depth of the snowfall on the nearer hills is reported to have been about 1½ ft. The snowfall of the season was below the average.

(*b*) *Sadiya Frontier Tract.*—There was some snowfall in the Mishmi and Abor hills at elevations above 8,000 ft. The accumulations are estimated at about 2 ft. at this height. Both the snowfall and the accumulations are about the average.

Summary.

Cold Weather Period, January and February.—Falls and accumulations were generally above average in the north-western Himalayas and neighbouring regions and below it in Assam.

Hot Weather Period, March to May.—Snowfall for the period as a whole was generally about the average, or slightly above, except in Assam where it was less than the normal. Accumulations were above normal throughout the Western Himalayas, being heavy in the Punjab ranges.

South-west Monsoon Period, June and July.—Snowfall was mostly confined to elevations above 10,000 ft. and its amount was generally below the average. The accumulations, however, were in general not far from the average.

South-West Monsoon Period, August and September.—Snowfall was about normal in Kashmir and the Punjab, and above normal in the United Provinces. Elsewhere there was hardly any snow. The accumulations at the end of the period were generally below normal, except in the United Provinces, where they were above the average.

Retreating Monsoon Period, October to December.—Snowfall for the period was not far from the normal in Kashmir, and the United Provinces. Elsewhere it was below normal. The accumulations at the end of the period were generally about the normal.

S. R. SAVUR,
Meteorologist, Poona.

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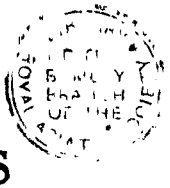
GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1935.

ANNUAL SUMMARY



PART C

STORMS AND DEPRESSIONS

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Published by Authority of the Government of India

UNDER THE DIRECTION OF

S. K. BANERJI, D.Sc.,

Offg. Director General of Observatories

DELHI: MANAGER OF PUBLICATIONS
1937

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INDIA WEATHER REVIEW, 1935.

ANNUAL SUMMARY.

PART C.

STORMS AND DEPRESSIONS.

DEPRESSIONS AND CYCLONIC STORMS.

During the year 4 storms and 8 depressions formed in the Bay of Bengal, 2 storms and 2 depressions in the Arabian Sea and one depression over Bihar. The dates on which the storms occurred and the greatest barometric depths observed are summarised in the Table below :—

Locality.	Month.	Date.	Greatest observed barometric depth.
Arabian Sea . . .	January .	28—29	0·30″
Arabian Sea . . .	June . .	17—18	0·20″
Bay of Bengal . . .	July . .	8	0·30″
Bay of Bengal . . .	October .	18	0·35″
Bay of Bengal . . .	October .	22	0·30″
Bay of Bengal . . .	November .	13—15	0·50″

The detailed descriptions of these storms and depressions are, as usual, followed by a list of western disturbances of the year, of the more important local storms, and of the localities in which winds of force 9 or more were experienced by ships in the Indian Seas.

1. *Arabian Sea Storm of 28th to 29th January 1935.*— Associated with the eastward passage of a western disturbance which was affecting Iraq on the 25th, pressures fell considerably over the region extending from east Iran and Oman to Sind and Gujarat during the 26th. An elongated trough of low pressure extended from north Iran to Oman on the evening of the 26th and had moved further eastwards by the next morning, when it lay over east Iran, west Baluchistan and the north Arabian Sea adjoining the Mekran coast. A steep pressure gradient over the Persian Gulf caused strong winds and rough seas there, while gusty or squally weather with moderate to rough seas also prevailed on the Mekran coast. Fairly widespread rain had occurred in Mekran and clouding had extended to northwest India generally. The upper winds over the Persian Gulf and the Mekran-Sind coast had strengthened and a westerly to northwesterly wind blew with gale to storm force at Bahrein at all levels and at Muscat above 3 km. ; at Karachi a west-southwesterly wind blew with force 6 to 7 at 4 km. and force 11 at 6 km.

The evening chart of the 27th showed that the extended trough of low pressure was stationary but a fairly deep depression had developed at its southern end off the Mekran coast. Widespread rain had occurred from Jask to Pasni and rain was falling at 12 G. M. T. along the whole of the Mekran coast. Seas were moderate to rough and weather was squally over the persian Gulf and Mekran, the surface wind at Gwador blowing with force 8 from the east at 12 G. M. T.

By the 28th morning, pressure had fallen considerably over northwest India as a whole, the greatest falls being over Sind and northeast Rajputana. The trough of low pressure had moved in an eastward to northeastward direction and the depression at its southern end, having deepened further, was centred off the Mekran-Sind coast near Lat. 23°N., Long. 66½°E. The pressure departure at the centre of the depression was of the order of 0·30″. Widespread rain had occurred in Baluchistan, Pasni recording 3″. Strong winds and rough seas had extended along the Mekran-Sind coast. The upper winds at Karachi, Ahmedabad,

Jodhpur, Bombay, Malegaon and Poona had strengthened above 2 km. and blew from a southerly direction with force ranging between 8 and 12. The following ships' observations are of interest in this connection :—

Name of ship.	Date.	Time.	Position.		Wind.		Cloud.	Sea.	Swell.	Weather Remarks.
			Lat. N.	Long. E.	Dir.	For.				
			° ′	° ′						
S. S. Varsova . .	28	8 hrs. (Ship's time).	24 54	61 29	NW	7	9	Rough	Heavy	Frequent rain-squalls.
S. S. Masimpur . .	28	8-30 (I. S. T.).	23 18	67 30	NE	6	Nb. 10	Rough	Mod.	Rain at the time of observation ; a succession of thunderstorms with clear intervals since 2-30 A. M.
S. S. Dogra . . .	28	8 hrs. (Ship's time).	24 00	67 05	NE	6	Stcu. and Nb. 10.	Rough	Mod.	Sky overcast and dull.

By the evening of the 28th, the depression moved slightly northeastwards and had intensified into a storm of moderate intensity and of small extent over the Sind-Kathiawar coast, as shown by the following observations received from *S. S. Masimpur* which was in the storm field :—

Time (I. S. T.) Hours.	Position.		Cloud.	Wind.		Sea.	Swell.	Weather Remarks.
	Lat. N.	Long E.		Dir.	For.			
	° ′	° ′						
12-00	23 47	67 12	Cunb. 9	E	7	High	Heavy	Overcast ; passing showers. Dhow No. 4301 flying distress signals ; at 1344 hrs. the crew of Dhow (6 men) brought aboard by ship's life boat. 1352 set course and proceeded again towards Karachi.
14-30	23 54	67 12	Stcu. 6	SW	7	Rough	Heavy South-westerly.	Squally weather, barometer falling quickly.
16-00	24 02	67 02	Stcu. and Nb. 10.	SW	7	High	Heavy	Overcast sky. Squalls and rain.
17-30	24 12	66 54	Cunb. 10	NE	8	Very rough	Heavy	Showers with squalls ; bar. falling. At 1630 hrs. the wind veered from southwest to northeast in a few moments. Weather apparently getting worse.
18-00.	24 17	66 52	Cunb., Alst. 10.	NE	9	High	Heavy	Overcast, squalls and showers 1730-1800 hours, wind full force 9. Courses and speed various varied according to Commander's orders.

At 1800 hrs. the storm was centred about 80 to 100 miles to the southsouthwest of Karachi. By 2300 hours it had moved further northeastwards and was approaching the coast between Dwarka and Karachi. Rough seas, strong winds and squally weather had extended to the Kathiawar coast. *S. S. Masimpur* situated at this hour about 50 miles to the south of Karachi reported very high sea and a northeasterly wind of force 7 ; Dwarka reported high sea with heavy swell and a southwesterly wind of force 7 with squally weather, while the sea at Veraval had also become rough. By 0200 hours of the 29th, the storm had passed inland between Karachi and Dwarka, and lay as a depression between Hyderabad (Sind) and Deesa. The weather had already moderated considerably along the Sind coast, *S. S. Masimpur*situated about 30 to 40 miles from Karachi now reporting a northeasterly wind of force 4 to 5 and Karachi itself reporting a light westerly wind. Weather continued to be rough on the Kathiawar coast for some time more but had moderated there also by 0800 hours, as, by this time, pressures had risen considerably over Sind, Rajputana and Gujarat and caused the depression there to fill up.

The low pressure trough in which the storm had formed had also moved in a northeastward direction. While pressures were rising at its southern end as mentioned above, they fell considerably at its northern end, *viz.*, over the Punjab. Consequently, on the 29th morning, simultaneously with the filling up of the depression over Sind, a deep depression appeared over the west Punjab. This latter depression weakened rapidly and passed away eastwards through Assam by the end of the month.

Under the influence of the storm and of the Punjab depression of the 29th, widespread rain fell between the northwest frontier and the central parts of the country between the 27th and 29th, the rain being locally heavy along and near the western Himalayas on the last two days of this period.

2. *Depression of 26th to 27th April 1935.*—Thundery conditions, which prevailed over the Andaman Sea and the neighbourhood on the 21st, became more marked on the next day and, by the morning of the 23rd, extended to the south Bay of Bengal where weather became suspicious during the next two days. On the 25th morning, a temporary advance of the southwest monsoon occurred in the southeast Bay of Bengal where weather became markedly unsettled and by the afternoon of that day a cyclonic circulation in the upper air established itself over the central and south Bay up to a height of about 4 km.

Pressure was rapidly falling in the Bay Islands and over Pegu and on the early morning of the 26th the unsettled conditions in the southeast Bay were apparently concentrating into a depression with the central region in the neighbourhood of the Andamans. By 8 hours of the same day, a depression formed with centre within half a degree of latitude 13°N., longitude 93½°E. The depression intensified while moving in a northwesterly direction and at 8 hours of the 27th lay within half a degree of Lat. 14°N., Long. 96°E. The pressure departure near its centre at this stage was of the order of —0·20″. Afterwards the depression began to show signs of weakening, as a consequence of the withdrawal of the southwest monsoon current from the Andaman Sea, and became unimportant by the 27th afternoon.

In association with this depression, there was widespread rain in the Bay Islands, the Tenasserim and the Irrawaddy and Pegu divisions between the 25th and 27th, with locally heavy falls in Tenasserim on the 26th.

3. *Arabian Sea Storm of 17th to 18th June 1935.*—The Arabian Sea monsoon strengthened on the 13th and 14th June, and locally heavy falls occurred in Kanara and the south Konkan on these days. By the 15th morning, a general fall of pressure had occurred over most of the country but a comparatively larger fall was noticed over the Konkan and the Deccan. The upper winds at Bombay, which had been southerly or westerly, had changed to an easterly to northeasterly direction above 4 km. During the next 24 hours, further heavy falls of rain occurred in Kanara and pressure continued to fall considerably along the Kanara-Konkan coast. A concentrated area of negative departures lay this morning off the Kanara-Konkan coast. Upper winds at Bombay had changed at all levels to an easterly or northeasterly direction, while those at Malegaon had changed similarly above 1·5 km. By the 16th evening, the area of negative departures had extended further northwards and the upper winds at Poona veered to an easterly to southeasterly direction. By the early morning of the 17th, a depression had formed off the Konkan coast. *S. S. Jalamohan* situated at 7 hours of that day at Lat. 16° 30′N., Long. 71° 30′ E. reported a westsouthwesterly wind of force 6, overcast sky, squally weather, rough sea and a heavy southwesterly swell, rain being the principal feature of the past weather. *S. S. Schonfels* situated at 8 A.M. at Lat. 18° 35′ N., Long. 70° 22′ E. was experiencing a westnorthwesterly wind of force 5, overcast sky and rough sea. Reports from observatories along the Kanara-Konkan coast and from ships off that coast showed that strong winds, rough seas and squally weather, in many cases accompanied with rain, prevailed along and off that coast. Marmagao reported, at 8 hours of the day, a southwesterly wind of force 8 and by this time the depression was probably a storm of small extent centred about 150 miles to the northwest of Ratnagiri, the pressure departure at the centre being of the order of —0·20″. The weather diary for the day maintained at that observatory reads :

" Moderate continuous rain with squally wind from midnight till 6 hours, heavy rain-shower with strong wind between 7·50 and 10 hours. Owing to rain, visibility was moderate, sky was mainly overcast, showers of short duration and of moderate nature with squally wind between 14·30 and 19 hours during the afternoon."

The storm remained practically stationary off the Konkan coast till the evening of the 17th and strong winds and squally weather continued to be experienced in its monsoon sector. *S. S. Heron* situated at 20 hours of the 17th near Lat. 15° 15′ N., Long. 73° 45′ E. reported a westerly wind of force 8, overcast sky, squally weather, very rough sea and moderate swell. By the morning of the 18th, pressures had risen generally and the storm had weakened into a depression, which lay at 8 hours of that day over the Gulf of Cambay. *S. S. Baringa,* situated near its central region this morning reported a westerly wind of force 7, squally weather, very rough sea and heavy westerly swell ; a thunderstorm had occurred and rain was still falling at the time of observation. By the evening of the 18th, the depression had weakened further and passed inland across the Kathiawar coast and weather had moderated along the coasts, the force of wind even in the monsoon sector going down to 3 or 4. It filled up over Kathiawar by the next morning.

The following observations were recorded by *S. S. Heron,* which was in the monsoon sector of the depression :—

Date.	Time.	Position.		Wind.		Sea.	Swell.	Cloud.	Weather Remarks.
		Lat. N.	Long. E.	Dir.	For.				
		° ′	° ′						
16	8 P.M.	12 20	74 55	Variable	7	Rough	..	Overcast	Overcast. Squally.
17	8 A.M.	13 52	74 14	SW	6	Mod.	Mod.	Do.	Rain and squalls.
17	8 P.M.	15 15	73 45	W	8	Very rough	Mod.	Do.	Squalls.
18	8 A.M.	16 30	73 12	Variable	6	Rough	Mod.	Do.	Squalls.
18	8 P.M.	17 45	73 05	Do.	7	Very rough	Mod.	Do.	Rainsqualls.

This disturbance was responsible for a strengthening of the monsoon in Kanara and the Konkan and its extension into the Bombay Deccan. Widespread thunderstorm rain also occurred in Gujarat under its influence on the 18th.

4. *Shallow Depression of 25th to 26th June 1935.*—A slight pressure fall was noticed in the central Bay of Bengal on the 23rd morning. During the course of the next 24 hours, pressure fell rapidly over the region extending from the Arakan coast to the northwest angle of the Bay and on the morning of the 24th conditions became markedly unsettled off the Orissa-Ganjam coast, where a cyclonic circulation had definitely established itself as was shown by observations from coastal observatories and ships.

Pressure fell further during the course of the day and a shallow depression formed with central region at 8 hours of the 25th about 100 miles to the southeast of Puri. During the course of the next 24 hours, the depression moved without intensifying in a northwesterly direction and passed inland across the Orissa-Ganjam coast. It lay as a low pressure area over the central parts of the country on the 26th and filled up by the next morning.

This disturbance was responsible for widespread rain along the Ganjam coast and in Bengal between the 23rd and 25th and an extension of the monsoon into Bihar and Orissa, the central parts of the country, Gujarat and Rajputana between the 23rd and 27th. The notable amounts were 7″ at Calingapatam and 5″ at Narasannapeta (Ganjam) on the 25th.

5. *Storm of 8th July 1935 in the Bay of Bengal.*—On the morning of the 7th July, a well marked area of negative pressure departures appeared over the head of the Bay of Bengal, while the upper winds at Calcutta, Dacca and Chittagong showed a cyclonic circulation extending at least up to 2 km. During the course of the day, pressure fell appreciably in the northwest angle of the Bay and by the evening, a depression had formed there; the 17 hours surface chart showed a closed circulation, all stations round the head of the Bay reporting rain or drizzle. *S. S. Khosrou,* situated at 1530 hours at Lat. 19° 5′ N., Long. 89° 5′ E., reported a southwesterly wind of force 6, rough seas, heavy swell and continuous moderate rain, while *S. S. Talma* at Lat. 20° 6′ N., Long. 88° 7′ N., at 1730 hours reported a SW/W wind of force 6, very rough sea, heavy swell and showers of heavy hail and rain; upper winds had also strengthened and the cyclonic circulation in the upper air could be traced up to a height of 3 km.

Pressure fell rapidly after the evening of the 7th, and by the early morning of the next day the depression became deep. It was centred at 2 hours that morning about 60 miles to the southeast of Saugor Island, the pressure departure in the central region being —0·20″. The depression continued to deepen rather rapidly, the pressure deficiency at the centre being of the order of 0·30″ by 8 hours when the centre lay about 50 miles to the southeast of Saugor Island; by this time, it was possibly already a storm of small extent, although it was not until 11 hours that winds of force greater than 7 were reported and the disturbance could be definitely called a storm. By about 3 P.M. the storm had become severe, as seen from the observations at Saugor Island, where at 2·45 P.M. the wind rose to force 11 (63 m. p. h.). *R. S. V. Guide* anchored at 14·5 nautical miles to the northeast of Saugor Island light house experienced winds of force 10-12 between 3·40 and 4 P.M. Danger signals had been hoisted at the Hoogly ports and in the districts of 24-Parganas and Midnapore at about 13 hours of the 8th. During the course of the day, the storm moved in a northwesterly direction and by the evening crossed the coast near Saugor Island; winds of force 8 or more however continued to blow in the northwest angle of the Bay till the next morning.

It may be mentioned here that at Saugor Island, the wind shifted from NNW to WSW between 1 and 2 P.M., the force falling to 4 at the same time but rising to 11 three-quarters of an hour later. At the *R. S. V. Guide,* the wind shifted from NE/N to SW and fell to force 3 at 2·45 P.M., which was also the time of the lowest barometer reached there during the storm, and rose to force 10 at 3·40 P.M. These observations indicate that the central region of the storm was a region of comparatively light winds and passed near Saugor Island at about 2 P.M. and near the *R. S. V. Guide* at about 2·45 P.M.

The storm caused vigorous monsoon in the north and central Bay; *S. S. Karoa,* situated at 1530 hours of the 8th at Lat. 20°1′N., Long. 89°E., reported a southwesterly wind of force 8, rough sea, heavy swell and showers with squalls. *F. L. V. Star,* Lower Gaspar Station (Lat. 21° 28′N., Long. 88° 07′E.), reported southwesterly winds of force 7-8 between 11 hours of the 8th and 12 hours of the 9th. It experienced squally weather with heavy seas and swell in the forenoon of the 8th, the squalls getting heavier as the wind shifted from W to SW. Heavy rain with squalls was experienced between 11 hours and 20 hours after which the rain moderated. Rain stopped after 23 hours although squally weather and heavy seas continued. Inland stations near the head of the Bay also experienced stormy weather; for instance, Calcutta reported cyclonic weather with intermittent squalls on the 8th night and the 9th morning, a squall of 33 m. p. h. being recorded on the 8th afternoon.

The changes in wind direction and force at the Sandheads and Saugor Island with the progress of the storm between 2 hours of the 8th and 8 hours of the 9th given below may be of interest as these stations were near the central region of the storm.

Station.	Date.	Hour.	Wind.		Sea.	Swell.	Weather Remarks.
			Dir.	For.			
Saugor Island	8	02	NNE	6	..	..	Squally weather.
	8	08	N	6	Slight	..	Ugly threatening sky.
	8	11	NNW	6	Moderate	3	Ugly threatening sky.
	8	14	WSW	4	Moderate	3	Ugly threatening sky.
	8	17	SW	7	High	5	Heavy squalls.
	9	02	SW	6	..	..	Ugly threatening sky.
	9	08	SW	6	Very rough	5	Overcast.
Sandheads	8	02	SW	6	Rough	7	
	8	08	WSW	6	Very rough	7	Squally.
	8	11	WSW	8	Very rough	7	General bad weather.
	8	17	SW	9	Very rough	7	General bad weather.
	9	02	SSW	8	Very rough	7	General bad weather.
	9	08	SSW	8	Very rough	7	Cloudy.

Extracts from an interesting account of the storm received from the Commander of *R. S. V. Guide** are given below :—

" On Sunday the 7th instant, the weather was suspicious with good visibility and variable winds. In the morning the wind was ENE with dense ugly clouds banked from SE to NW. These clouds worked rapidly to eastward and a very heavy squall was experienced from the east lasting from 7-40 A.M. to 8-20 A.M. after which the sky cleared up. Between 9-00 A.M. and 3-00 P.M. the sky was alternately blue and cloudy with the wind veering from ENE through E and S to SW then backing through S to SE and later through E, N and W to W×S. Beteween 1 P.M. and 3-00 P.M. heavy squalls were experienced from SE. The barometer gave no indication of the formation of the depression up to 8-00 P.M., the reading at that hour being 29·43, only three hundredths below the corresponding reading the previous evening.

" On Monday the 8th at 6-00 A.M. the sky was cloudy, visibility very good and wind NNE, force 3 (Beaufort's Scale). Barometer had fallen eight hundredths since 8-00 P.M. the previous evening. By 10-00 A.M. there was a further drop of nine hundredths and the wind had increased to force 6, being still NNE and accompanied by moderate squalls. At 1-00 P.M. the barometer fell a further seven hundredths ; the wind veered to NE×N, force 6, and was accompanied by increasingly frequent and heavy squalls. Sky uniformly overcast.

" At 2-45 P.M. the barometer fell a further five hundredths to 29·14 (the lowest reading obtained during the storm) and the wind shifted without pause to S×W, blowing at force 3. At the same time the sky from E to SSW became extremely ugly and threatening. Moderate rainfall.

" At 3-40 P.M. the wind suddenly increased to force 10, blowing a whole gale from S×W accompanied by heavy blinding rain. Barometer steady at 29·14.

" By 4-15 P.M. the wind had increased to force 10-12, blowing with hurricane force from S×W. Heavy, driving rain, tumultous sea. Barometer steady at 29·14.

" At 4-30 P.M. the wind veered to SSW still blowing a whole gale though now exceedingly gusty. Rain less heavy. Barometer rose to 29·17.

" From now on the barometer rose steadily to 29·33 at 11-00 P.M. At 6-00 P.M. the wind hauled to SW and its force lessened to 7 at 9-00 P.M., thereafter increasing again until at 11-00 P.M. it was again blowing a whole gale but with little rain."

* The *R. S. V. Guide* was anchored N×E distant 14·5 nautical miles from Saugor Light House.
Barometer readings were taken with a compensated aneroid, with corrections applied, which was tested on the 4th instant by an Inspector from the Observatory.

" Throughout Tuesday, the 9th, the wind blew from SW, decreasing from force 9 at 6-00 A.M. to force 5 at 8-00 P.M. Barometer rose steadily to 29·39 at 8-00 P.M.

" A feature of this cyclonic storm was the rapidity with which it formed and travelled and the comparatively little rain that accompanied it. Apart from the very heavy rain at the time when the storm passed my vessel the rainfall was moderate."

The tables below show the state of the weather on the 7th and 8th July near Saugor Island.

R. S. V. Guide.

(Sunday, 7th July 1935.)

Time.	Wind direction.	Wind Force.	Sky.	Barometer.	Thermometer.
6-00 A.M.	ENE	2	Overcast	29·47	84
10-00 A.M.	SE	2	Partly clouded	29·48	83·5
1-00 P.M.	SW	2	Partly culoded	29·42	86
4-00 P.M.	SE	3-4	Overcast, Rain	29·40	84
8-00 P.M.	W/S	2	Partly clouded	29·43	83

Comparative Table showing Wind Force and Direction on board R. S. V. Guide and at Saugor Island Light House on Monday, 8th July 1935.

Time.	Wind Direction.		Wind Force.		Weather.	Barometer.	Thermometer.
	Guide.	Saugor.	*Guide.*	Saugor.			
6-00 A.M.	NNE	N	3	6	Cloudy	29·35	82
10-00 A.M.	NNE	NNW	6	6	Squally	29·26	82·5
12-00 noon	NE/N	N	6	3	Squally	..	..
1-00 P.M.	NE/N	NNW	6	5	Overcast, Rain	29·19	84
2-45 P.M.	S/W	SSW	3	11	Rain	29·14	..
3-40 P.M.	S/W	..	10	..	....	29·14	..
4-00 P.M.	S/W	SSW	10-12	9	Overcast, Rain	29·14	83·5
6-00 P.M.	SSW	SW	8-10	10	....	29·19	..
8-00 P.M.	SW	SW	7-8	8	Overcast, Rain	29·26	83·5
10-00 P.M.	SW	SW	8-9	9	....	29·33	..
12-00 (midnight)	SW	SSW	10-12	9	....	29·31	..

On the 9th, the storm lay as a deep depression near Ranchi and moved to east Central India on the following morning, remaining still deep. Moving northwestwards, the depression then gradually weakened and lay to the north of Nowgong on the 11th. Thereafter, it moved westwards and was near Kotah on the 12th morning. Afterwards, it weakened further and filled up.

In connection with this storm, widespread and locally heavy rain fell in Orissa on the 7th and 8th. It strengthened the monsoon over the region extending from the

Orissa-Ganjam coast to Gujarat and in the United Provinces and Rajputana and brought it into the Punjab and Sind.

Name of Station.	6th.	7th.	8th.	9th.	10th.	11th.	12th.
	"	"	"	"	"	"	"
Orissa.							
Bargarh	..	6	..	..	..	..	..
Bisra	..	6	8	..	..	..	..
Sundargarh	..	..	7	..	..	..	..
Dhankanal	..	..	6	..	..	..	..
Boniagarh	..	..	6	..	..	..	..
Jagatsinghpur	..	7	..	..	..	..	..
Jajpur	..	6	..	..	..	..	..
Aul	..	7	..	..	..	..	..
Binjharpur	..	6	..	..	..	..	..
Rajkanika	6	..	..	..	..	..	..
Pata Mundal	..	7	..	..	..	..	..
Chandbali	..	6	..	..	..	..	..
Sambalpur	..	9	..	..	..	..	..
Central Provinces.							
Sarangarh	8	..	..	..	..	..	..
Sakti	..	..	..	..	..	7	..
Jubbulpore	..	..	6	6	..	..	..
Saugor	..	..	..	..	6	..	..

Some of the noteworthy falls of 6" and above in connection with this storm are given below :—

Name of Station.	6th	7th	8th	9th	10th	11th	12th
	"	"	"	"	"	"	"
Central India.							
Guna	..	..	..	..	7	..	..
Chhapihara	..	7	..	..	..	..	..
United Provinces.							
Nawabganj	..	..	6	..	..	..	..
Punjab.							
Jogindar Nagar	..	..	7	..	..	..	..
Rajputana.							
Dharamjaygarh	..	..	8	..	..	..	..
Raipur	..	6	..	..	..	..	..
Baikunthpur	..	..	..	..	..	6	..
Nand	..	..	..	..	..	..	9
Pushkar	..	..	..	..	..	..	10
Merta	..	..	..	..	..	..	7
Gujarat.							
Jawhar	..	..	..	..	7	..	..
Vyara	..	..	..	..	6	..	..
Veraval	6	..	..	..	..	..	..

According to newspaper reports, the rains associated with this disturbance caused heavy floods in Gujarat, Bihar, the United Provinces, the Punjab and the central parts of the country, leading to considerable damage to property and interruption in railway and other traffic.

6. *Depression of 14th to 21st July 1935 in the Bay of Bengal.*—With the passing inland of the storm on the 9th, the monsoon became generally active over the country. Pressure began to fall in Burma from the 10th and a feeble cyclonic circulation was noticed off the Arakan coast on the 11th morning, *S. S. Masimpur* at Lat. 18°49′ N., Long. 90° 33′E. reporting a southwesterly wind of force 3 and drizzle, *S. S. Cape St. Francis* at Lat. 18°N., Long. 91° 5′E. reporting a northwesterly wind of force 3, intermittent heavy rain and moderate swell and Akyab reporting an easterly wind of force 2 and intermittent drizzle.

Well-marked negative pressure departures were also noticeable in the north Andaman Sea and Lower Burma on the same morning, while the upper winds of Akyab, Sandoway, Rangoon and Mandalay indicated the existence of a low pressure area over Burma. By the afternoon of the same day, pressures had fallen further in Lower Burma and the low pressure area was then more marked both in the surface and upper air charts. In the course of the next two days, the pressure fell round the Bay and the low pressure area over Burma moved westwards into the west central Bay by the morning of the 13th. Upper winds at Sambalpur and Vizagapatam on this day showed a cyclonic circulation in the upper levels also. Observations from coast stations and steamers on the 14th morning suggested that a depression had formed with central region at 8 hours within a degree of Lat. 15½°N., Long. 87°E., the pressure departure at the central region being of the order of 0·100". The upper winds of Vizagapatam and Madras also confirmed the intensification of the low, the winds at Madras blowing with force 7-9 up to 1·5 km.

Pressures continued to fall in the central Bay and on the 15th morning, the depression was centred near Lat. 16½°N., Long. 86½°E.

During the next 24 hours, the depression moved in a northwesterly direction without further intensification and at 8 hours of the 16th was centred about 125 miles south of Puri. The depression then took a northeasterly course, moving by 8 hours of the 17th to about 80 miles to the southeast of Puri. Travelling slowly thereafter in a northerly direction, it was centred off Chandbali on the 18th morning, the pressure deficiency at the centre at this stage being of the order of— 0·150". On the morning of the 19th, the depression lay midway between the Sandheads and Balasore and remained practically stationary until the 21st when it entered inland. It lay as a low pressure area over Chota Nagpur on the 22nd morning, whereafter it merged into the normal monsoon trough of low pressure.

This disturbance caused strong monsoon in Orissa, the central parts of the country, the north Madras coast, parts of the Deccan, Gujarat and east Rajputana, locally heavy rain occurring in the Circars—Coromandel coast on the 13th and along the Orissa-Ganjam coast on the 17th. According to newspaper reports, severe floods occurred in Gujarat and the Central Provinces, several villages in Cutch being

washed away. Notable amounts of rainfall are given below :—

Name of Station.	17th.	18th.	19th.	20th.	21st.
	"	"	"	"	"
Gopalpur	6	..	..	..	..
Sutna	..	5	..	..	..
Dwarka	..	5	..	..	..
Sarangarh	..	..	11	..	..
Chandbali	..	..	10	..	..
Rairokhal	..	5	..	..	..
Navasari	..	..	6	..	..
Pachmarhi	..	..	..	..	6
Bargarh	..	..	..	7	..

7. *Unsettled Conditions of 24th to 26th July 1935 in the Bay of Bengal.*—On the morning of the 24th, a large fall of pressure was noticed along the Chittagong—Arakan coast; a well marked area of negative pressure departures also appeared round the head of the Bay. During the course of the day, pressure fell further along the Chittagong—Arakan coast and general heavy rain fell along the coast from Amherst to Akyab in course of 9 hours. By the morning of the next day, pressure had fallen markedly in the northwest angle of the Bay, which then became the area of maximum pressure deficiency, *viz.*, —0·200". Both the surface and upper air charts indicated that the low which had persisted over Chota Nagpur and the adjoining areas during the previous two days protruded into the northwest angle of the Bay. There was a marked increase of rainfall in Orissa and the Ganjam coast during the 24 hours ending at 8 hours on the 25th.

All these facts showed that weather was markedly unsettled in that area. In course of the next 24 hours, however, the unsettled conditions passed inland through Orissa without further intensification and strengthened the monsoon in the central parts of the country and the United Provinces and also maintained its activity in Burma, northeast India and the Punjab.

8. *Unsettled Conditions between the 28th and 29th July 1935 in the Bay of Bengal.*—On the morning of the 28th, a fall in pressure occurred in the northwest angle of the Bay where a feeble cyclonic circulation was also noticed on both the surface and upper air charts. The pressure departure in the area was of the order of —0·150". These facts suggested that conditions were unsettled in the northwest angle of the Bay. The unsettled conditions, however, passed inland in the course of the next 24 hours and concentrated as a low pressure area over Chota Nagpur on the morning of the 29th. This low pressure area then moved westwards and filled up by the morning of the 1st August. These disturbed conditions were responsible for widespread moderate to heavy rain in Chota Nagpur and the Orissa—Ganjam coast on the 28th. They caused a vigorous monsoon in the central parts of the country between the 28th and 31st and also served to maintain its activity in Burma, northeast India and the United Provinces.

9. *Unsettled Conditions of 1st to 4th and Depression of 5th to 6th August in the Bay of Bengal.*—After the passage inland of unsettled conditions from the northwest angle of the Bay on the 28th July, the monsoon continued to be strong in the Bay. On the 29th, pressures began to fall in Tenasserim, where, during that day, widespread and locally heavy rain occurred.

On the next day, a marked fall of pressure occurred over the region extending from the north Andaman Sea to the north Bay off the Chittagong—Arakan coast and a well marked area of negative pressure departures appeared there on the morning of the 31st July. Upper winds at Calcutta which were southerly or southeasterly on the 31st July changed in the course of the next 24 hours to between east and north up to 4 km. (limit of pilot balloon ascent), suggesting thereby that a low pressure wave had travelled across Tenasserim towards the north Bay, where weather became markedly unsettled by the 2nd morning. The unsettled conditions persisted for the next two days, and, by 2 hours of the 5th were concentrating into a depression to the east of the Sandheads; at that hour stations round the head of the Bay were experiencing drizzle or rain and Akyab reported a southerly wind of force 6.

By 8 hours of the same day, a depression had formed about 80 miles to the east of Saugor Island. Moving in a northwesterly direction, the depression crossed the southwest Bengal coast the same afternoon. It weakened thereafter and became unimportant by the 6th afternoon. It caused strong monsoon in the central parts of the country, the United Provinces and northeast India.

10. *Land Depression of 12th to 16th August 1935.*—On the afternoon of the 10th, there was a tendency for pressure to fall in parts of Bihar and the east United Provinces and a shallow low pressure area appeared over Bihar. In the upper air, a cyclonic circulation extended up to a height of 3 km. This low persisted there for two days, intensifying at the same time, and by the morning of the 12th lay as a depression with centre between Gaya and Naya Dumka. The depression remained practically stationary till the next day and thereafter began to move in a westnorthwesterly direction. It was centred near Jhansi on the 15th morning and weakened considerably by the morning of the 16th, merging into the seasonal low over northwest India during the course of that day. Associated with this depression, widespread rain with locally heavy falls occurred along and near its track. According to newspaper reports, severe floods occurred as a result of heavy rain, chiefly in the rivers of west Bengal, Bihar and the Punjab. Noteworthy falls, *viz.*, of 5" and above, are given below :—

Station.	9th.	10th.	11th.	12th.	13th.	14th.	15th.
	"	"	"	"	"	"	"
Asansol	..	..	7	..	..	..	..
Gangarampur (Dinajpur)	..	..	5	..	..	..	..
Itahar (Dinajpur)	..	..	8	..	..	..	..
Rangpur	..	6	6	..	..	..	..
Bihar (Patna)	7	..	..	..	..	..	..
Bikram (Patna)	5	..	..	..	..	..	..
Naubatpur	9	..	..	..	..	..	..
Jhanabad (Gaya)	6	..	..	..	..	..	..

Station.	9th.	10th.	11th.	12th.	13th.	14th.	15th.
	"	"	"	"	"	"	"
Ageaon (Shahabad)	5	..	5	..	..	..	..
Rajauli (Gaya)	..	5	..	6	..	..	..
Rafiganj (Gaya)	..	5	..	..	..	..	..
Manoharpur (Shahabad)	..	..	5	..	..	..	..
Bassawan (Shahabad)	..	..	..	5	..	..	..
Mahanin (Shahabad)	..	..	..	5	..	..	..
Sasaram (Shahabad)	..	..	..	6	..	..	..
Nabinagar (Gaya)	..	..	..	6	..	..	..
Aurangabad (Gaya)	..	..	..	..	8	..	..
Gaya	..	..	..	..	5	..	..
Akbarpur (Shahabad)	..	..	..	..	9	..	..
Adhaura (Shahabad)	..	..	..	..	9	..	..
Bhagalpur	8	..	..	..	..	..	..
Bansi (Bhagalpur)	..	..	6	..	..	..	..
Sultanganj (Bhagalpur)	13	..	..	..	..	..	..
Kisanganj (Purnea)	..	..	5	..	..	..	9
Jamtara (Santal Parganas)	..	..	5	..	..	..	..
Jarmundi (Santal Parganas)	..	..	..	9	..	..	..
Kalikund (Santal Parganas)	..	..	..	5	..	..	..
Madhupur (Santal Parganas)	..	5	..	..	..	..	..
Sarawan	..	..	..	7	..	..	..
Sarath	..	..	..	8	..	..	..
Paraiya	..	..	5	..	..	..	..
Parachamba (Giridih)	..	..	5	..	..	..	..
Golu (Hazaribagh)	..	..	6	..	..	..	..
Dumri	..	..	7	..	..	..	..
Dhanwar	..	6	..	..	..	..	..
Bagodar	..	..	8	..	..	..	..
Hunterganj (Hazaribagh)	..	..	5	..	..	..	..
Gobindpur (Manbhum)	..	..	7	..	..	..	..
Raghunathpur (Manbhum)	..	..	8	..	..	..	..
Dhanbad	..	..	10	..	..	..	..
Topchanchi	..	..	9	..	..	..	..

11. *Unsettled Conditions of 26th to 31st August 1935 in the Bay of Bengal.*—A weakening of the pressure gradient over the Bay was noticeable on the 25th August. During that day, pressures fell appreciably along the Burma coast and widespread rain, with locally heavy falls, occurred in Tenasserim. On the 26th morning, the pressure distribution was flat over the central Bay and the north Andaman Sea. Widespread rain with locally heavy falls again occurred in Tenasserim on the 26th. On the next day, a trough of low pressure extending from the north Andaman Sea to off the Circars—Coromandel coast made its appearance and a cyclonic circulation in the upper air was also noticed over the Andaman Sea up to a height of 500 metres. By the morning of the 28th, weather became unsettled in the north and central Bay off the Chittagong—Arakan coast. The upper winds between 1 km. and 4 km. at the coast stations on the 28th afternoon and the next morning and the surface chart of the 29th indicated that the unsettled conditions were concentrating in the west central Bay. They persisted there till the 30th and passed away without further intensification by the morning of the 31st.

12. *Deep Depression of 6th to 11th September 1935.*—A strengthening of the monsoon in the north and central Bay was noticed on the 5th morning with general rain along the coast from Victoria Point to Chittagong. During the next 24 hours, pressure fell appreciably round the head of the Bay and there was again widespread rain with locally heavy falls along the Burma coast. On the 6th morning, conditions became markedly unsettled at the head of the Bay east of the Sandheads. The unsettled conditions developed into a depression by the same afternoon with centre at 17 hrs. about 100 miles to the southeast of Saugor Island. The depression remained practically stationary, intensifying at the same time. By 8 hours on the 7th, it was fairly deep, the pressure deficiency near the centre that time being of the order of 0·30".

The depression moved slowly during the next 24 hours and, at 8 hours of the 8th, was centred about 60 miles to the south of the Sandheads. Thereafter, it showed signs of weakening and moved in a westerly direction. On the morning of the 9th, it was centred near Puri and moved over, during that day, to the Central Provinces, where it persisted till it filled up a couple of days later.

The depression strengthened the monsoon generally in Burma, northeast India and the central parts of the country between the 6th and 11th. Widespread rain also occurred in east Rajputana, east Gujarat, the Konkan and the north Deccan between the 9th and 11th under its influence.

13. *Unsettled Conditions of the 12th to 15th September 1935 in the Bay of Bengal.*—With the filling up of the depression over the Central Provinces on the 12th, an elongated trough of low pressure extended from the Central Provinces to the central Bay. On the 13th morning, conditions became unsettled at the eastern end of this trough off the Orissa—Circars coast.

The unsettled conditions persisted for the next two days without further intensification and by the morning of the 15th passed inland as a low pressure wave across the Orissa—Ganjam coast.

Fairly widespread rain occurred in this connection along the Circars and in the east Central Provinces, Chota Nagpur, Orissa and southwest Bengal.

14. *Shallow Depression of 20th to 21st September 1935 in the Bay of Bengal.*—Following the northwestward movement of a low pressure wave across Tenasserim between the 14th and 16th September, the monsoon strengthened in Lower Burma and in the Bay of Bengal to the south of Latitude 15°N. and a trough of low pressure appeared off the Orissa—Circars coast on the morning of the 18th. This trough moved to the north Bay in the course of the next 24 hours and by the morning of the 20th a definite cyclonic circulation had established itself in the north Bay. By the same afternoon, a shallow depression formed with central region within a degree of Lat. 19°N., Long. 89°E. The depression moved rapidly in a northerly direction and at 2 hours of the 21st was centred midway between Saugor Island and Balasore. Continuing to move in the same direction, it crossed the Bengal coast to the west of Saugor Island by the afternoon of the same day. On the morning of the 22nd, it lay near Naya Dumka and filled up in the course of the next 24 hours. In

association with this depression, widespread rain fell in northeast India with locally heavy falls in Bihar between the 19th and 23rd and in the east United Provinces on the 20th. According to newspaper reports, this heavy rainfall caused floods in Bihar and Bengal and breaches in the railway lines on the Eastern Bengal Railway. Some of the falls of 8″ and above recorded at 8 hours on different days in connection with this depression are given below :—

Station.	15th.	16th.	17th.	18th.	19th.	20th.	21st.	22nd.
	″	″	″	″	″	″	″	″
Siwan	..	..	..	19	..	..	..	..
Sitamarhi (Muzaffarpur)	..	..	13	..	..	..	..	..
Paru	..	..	..	..	8	..	..	..
Sheohar	..	..	8	..	..	..	..	..
Pupri	..	..	10	..	..	..	..	..
Shahebganj	..	..	..	..	8	..	..	..
Katra	..	..	9	..	7	..	..	..
Rosra	..	..	..	..	..	..	10	..
Begusarai	..	..	..	..	..	..	..	9
Gidhaur	..	..	..	..	..	..	9	..
Naya Dumka	..	..	..	..	..	..	11	..
Rangpur	..	9	..	..	..	..	..	..
Bagdogra (Nilphamarhi)	9	..	..	..	..	..	..	..
Kurigaon	..	8	..	..	..	..	..	..
Ulipur	..	14	..	..	..	..	..	..
Sunderganj	..	9	..	..	..	..	..	..

15. *Shallow Low of 1st to 7th October 1935 in the Bay of Bengal.*—On the morning of the 1st, pressure fell appreciably in the Andaman Sea and the neighbourhood and a concentrated area of negative pressure departure appeared over Pegu. The upper winds over Rangoon which were northwest or west on the 30th September changed to northeast or north on the following day. These facts suggested that a low pressure wave was passing westwards across north Tenasserim and Pegu. By the morning of the 2nd, a shallow low had formed over the Gulf of Martaban. This low did not intensify further but passed on the next day inland into Burma as a low pressure wave which later on travelled northwestwards and became unimportant over Bengal by the 8th. It was responsible for a strengthening of the monsoon in Burma between the 2nd and 5th and a temporary revival of the monsoon in Bengal and Assam between the 5th and 8th.

16. *The Bay of Bengal Storm of 18th October 1935.*—On the 15th morning, a feeble cyclonic circulation was noticed in the southeast Bay of Bengal suggesting that conditions were becoming unsettled there. The unsettled conditions then travelled northwestwards and became more marked by the afternoon of the 16th when a definite cyclonic circulation was established over the south Bay.

By the next morning, these unsettled conditions concentrated into a depression with central region within a degree of Lat. 10°N. and Long. 83°E. The depression moved in a northwesterly direction intensifying at the same time and by 2 hours of the 18th developed into a storm of small extent centred within a half degree of Lat. 11½°N. and Long. 82½°E. At Madras at this hour, a northnortheasterly gale (force 8) was blowing, rain was falling and the sea was rough. The storm moved very rapidly in a northwesterly direction and at 8 hours of the same day was centred about 100 miles to the southeast of Madras. The upper winds at Madras blew with force 10 from the east up to 1 km. this morning and the pressure departure near the centre of the storm was at least —0·35″. Continuing its course the storm weakened and crossed the coast near Madras at about noon of the 18th. Thereafter, it moved westwards across the Peninsula as a deep depression and passed out on the 19th into the Arabian Sea off the Kanara—Konkan coast. It moved in a northwesterly direction and was centred to the west of Karwar near Lat. 15°N., Long. 73°E., on the 20th morning. It was practically stationary there till the next morning. Minicoy registered 2″ of rain on the 19th morning and experienced squally weather on the 19th and 20th, while at Amini Devi rainy weather and fairly strong winds and squalls were experienced on these days, the wind occasionally attaining gale force between 3 and 5 A.M. on the 20th. Seas were very rough at Amini Devi on the 20th, and high to very high at Minicoy between the 19th and 22nd. The weather at these islands improved after the 21st.

The depression moved northwest between the 21st and 23rd, but changed its course thereafter to a westward direction. On the 27th, it was near Lat. 16½°N., Long. 64°E. On the next day, it began to get diffused, and degenerated by the 29th morning into an elongated trough of low pressure extending north to south over the central Arabian Sea.

This disturbance was responsible for widespread rain generally in the Peninsula, rainfall being locally heavy in the north Madras coast, southeast Madras, Malabar and Mysore. According to newspaper reports, these heavy rains caused floods in the rivers and dislocated road traffic considerably. The Coromandel as well as the Malabar—Konkan coasts experienced rough weather and several boats, including the mail boat at Alleppey, are reported to have capsized. Sailings of coastal boats and fishing operations were seriously interfered with. Below is given an extract from the report of the Port Officer, Madras :—

17th—"Light drizzle, heavy rain and rain at intervals between 07-36 and 24-00. Lightning at intervals between 19-00 and 05-45 the following day. Highest velocity was 44 miles per hour at 09-28, direction ENE. The weather was cloudy, misty and rainy. No fall in barometer."

18th—"Heavy rain, drizzle and rain at intervals between 00-01 and 22-05. Sea very rough inside, very high outside harbour; the highest wind velocity was 54 miles per hour at 01-55, direction NNE. Sea moderated inside harbour at 3 P.M. The weather was overcast, cloudy, misty, rainy. Barometer dropped 0·17″ in 24 hours."

The following observations from Madras will show the progress of weather at the station with the approach of the storm :—

18th October 1935.

Time of Observation.	Wind Direction.	Wind Force.	Weather remarks.
2 hours	NNE (unusual gustiness).	8	Int. Mod. Rain, Thunderstorm.
8 hours	E	8	Int. Sl. Rain, Thunderstorm.
11 hours	SE	3	Rain.
14 hours	SSE	6	Overcast, Rain.
17 hours	SSE	5	Rain.

Some of the noteworthy heavy falls of 7″ and above in connection with the disturbance is given below :—

Station.	18th.	Station.	18th.
	″		″
Madras	7	Ambalapuzha	8
Kathur (Chingleput)	11	Chenganur	8
Attipet	8	Haripad (Karthikapalli)	8
Sathiavedu	8	Panthanom Thitta	7
Cuddalore	8	Mavelikara	9
Kurunjipadi	7	Kayankulam	10
Peermade (Travancore)	7	Adur (Kunnathur)	7
		Kallarakara	8

17. *Storm of 22nd October 1935 in the Bay of Bengal.*—On the morning of 18th October, pressures were observed to have fallen over Tenasserim and Pegu. By the next morning, pressure fall had occurred further over the region and also extended to the Andaman Islands, leading to the appearance of a concentrated area of negative pressure departure over the Andaman Sea. Diamond Island reported a squall in the afternoon of the 19th and again in the morning of the next day. *S. S. Nirpura*, situated at 15-30 hours of the 19th to the northwest of Port Blair near Lat. 14½°N., Long. 90½°E., reported heavy squall, while *S. S. Karapara* near Diamond Island experienced rainsqualls at 1-30 hours of the 20th. By 8 hours of the 20th, pressure had fallen further over Port Blair but risen over Lower Burma and a depression had formed with centre about 50 miles to the west of Table Island. The depression moved northwestwards during the course of the day and was centred in the afternoon within a degree of Lat. 14½°N., and Long. 91½°E. The following observations are relevant in this connection.

Station or Steamer.	Hours of Observation.	Position.		Wind.		Sea.	Weather remarks.
		Lat. N.	Long. E.	Dir.	For.		
	I. S. T.	° ′	° ′				
Port Blair	17-00	..	..	SW	6		
S. S. Ethiopia	16-00	15 5	92 8	ESE	6	Rough.	
S. S. Masimpur	17-30	12 4	90 4	NW	3		
S. S. Nirpura	15-30	11 6	91 4	W	5	Rough	Rainsquall.

The depression moved in a northwesterly direction, intensifying at the same time, and by 8 hours of the 21st became fairly deep with centre within a degree of Lat. 15½°N. and Long. 89½°E. It maintained its northwesterly course and at 17 hrs. of the same day was centred within a degree of Lat. 17°N. and Long. 88°E. Thereafter, the deep depression began to recurve to the northeast and by the morning of the 22nd was centred within a degree of Lat. 19°N. and Long. 89°E. The pressure deficiency at its centre was now of the order of 0·30″ and apparently it was intensifying, if it had not already done so, into a storm of moderate intensity and small extent. The extract of observations given below of *S. S. Chantala* shows that, by the afternoon of the day, it had definitely intensified into a storm.

S. S. Chantala (22nd October).

Hour.	Position.		Bar. (uncorr.).	Wind.		Weather at time of observation.	Sea.	Swell.	Remarks.
	Lat. N.	Long. E.		Dir.	For.				
	° ′	° ′	″						
4 A.M.	21 31	91 35	29-83	ENE	4	Overcast, Rain-squalls.	Mod.	Mod.	Cont. rain. Visibility 6.
8 A.M.	22 03	91 43	29-84	NE	4	Ditto	Rough.	Mod.	7-00 A.M. Vessel anchored off Kutubdia Islands.
9 A.M.	..	..	29-82	NE	5				Cont. rain. Visibility 4.
10 A.M.	..	..	29-80	NE	6				
11 A.M.	..	..	29-76	NE	6				
Noon	22 03	91 43	29-71	NE	7	Overcast, Rain-squalls, Thunder, Lightning.	Very Rough	Low	Cont. rain. Visibility 2.
1 P.M.	..	..	29-69	E	8	....	..	..	1 P.M. Weighed anchor and proceeded to run southwards.
2 P.M.	..	..	29-55	SE	8	....	..	..	2-30. Weather moderating.
3 P.M.	..	..							
4 P.M.	21 36	91 31	29-59	S	6				
8 P.M.	22 27	91 36	29-61	SSW	5	Overcast, Showers	Rough	Heavy	Visibility 7.
10 P.M.	..	..	29-79	W	2	Ditto	Slight	Mod.	Ditto.
12 (Midnight)	22 11	91 46	29-80	WNW	2				
			29-80	WNW	2	Cloudy	Slight	..	Visibility 8.

The movement of the storm, after 8 hours of the 22nd, was very rapid. It crossed the coast near Chittagong by midnight of the 22nd and became unimportant by the next day. The following extracts from the accounts given by *S. S. Chantala*, which passed near the centre of the storm, will be found interesting :—

"After leaving Akyab at 5-30 P.M. on 21st October wind E×N force 4 the weather was dull an overcast. At 8 P.M. wind remained in the same quarter, sky heavily overcast with nimbus accompanied by vivid lightning. Shortly after 8 P.M. rain commenced which continued until 12. At midnight the sky was thickly overcast the wind ENE force 4 visibility 4. The vessel was rolling easily to a moderate swell.

"After midnight the barometer commenced falling, continuous rain persisted accompanied by squalls, wind remained from ENE. South Patches light was abeam bearing 081° distant 2·5 miles at 3-36 A.M. From thence various courses were steered and engines manœuvring owing to poor visibility. At 7 A.M. the vessel anchored owing to poor visibility the estimated position being Lat. 22°03′ N., Long. 91°43′ E.

"From 8 A.M. to noon the wind remained NE but increasing in force from force 4 at 8 A.M. to gale force (8) shortly after noon, the barometer falling to 29·71″ (uncorrected) at noon. At 1 P.M. the wind being gale force accompanied by squalls of extreme violence and continuous torrential rain, the anchor was weighed and the vessel stood to the southward, this being the only direction in which the vessel could run owing to proximity of land and shoals. The wind now commenced to veer, the barometer continued falling until 2 P.M. when it registered 29·55″ (uncorrected) this being the lowest reading recorded. From 2 P.M. the barometer commenced rising, the wind continued to veer and the weather began to improve. By 4 P.M. the rain had ceased, wind had veered to SSW and fallen to force 5, barometer risen to 29·61.″

"By this time (*i.e.*, 8 P.M.) the wind had veered to west and fallen to force 2. Barometer risen to 29·79″ (uncorrected), slight sea. Course was set to position off Kutubdia Island and thence to anchorage off Norman Point. The vessel arrived off this latter point at midnight and anchored shortly afterwards wind now being WNW force 2 barometer 29·80″ (uncorrected) slight sea, fine, clear, cloudy.

"From the above it would appear that the vessel's anchorage at noon was nearly in the path of the disturbance as the wind had till then remained in the same direction NE increasing in force with a falling barometer and the vessel running to the southwards the weather cleared very quickly and it appears likely that storm of moderate intensity and small extent passed to the northward of the vessel in the afternoon. From the rapid clearing of the weather this disturbance must have filled in fairly rapidly after approaching and crossing the Chittagong coast for the vessel experienced winds of only force 2 on running up the coast between 8 and 12 P.M. This conclusion is also verified by the rapidly rising barometer, *i.e.*, from 29·55″ at 2 P.M. to 29·79″ at 8 P.M. both readings uncorrected.

"The vessel anchored off Norman Point at 00·16. The barometer continued rising, wind remained westerly force 2, weather fine clear and cloudy at 8-30 P.M. the anchor was weighed and the vessel proceeded up the Karnaphuli River to Chittagong arriving at 10 A.M."

This disturbance was responsible for widespread rain in Burma and the Orissa and Bengal coasts ; some noteworthy falls of 5″ and above are given below :—

Station.	22nd.	23rd.	Station.	22nd.	23rd.
	″	″		″	″
Chittagong . .	..	5	Manikseri . .	6	..
Kutubdia . .	..	5	Akyab . .	..	6
Mahalchari . .	..	5	Kyaukpyu . .	..	6

18. *Deep Depression of 1st to 3rd November 1935 in the Bay of Bengal.*—Conditions became unsettled in the south-west Bay on the morning of the 31st October as indicated by the observations from the following ships :—

Date.	Name of ship.	Position. Lat. N.	Position. Long. E.	Hour of Obsn.	Wind. Dir.	Wind. For.	Remarks.
		° ′	° ′				
31st October . . .	S.S. Rahmani . . .	14 3	85 3	0630	NE	2	
31st October . . .	S.S. Rajula	10 5	80 8	0130	NE	3	Intermittent rain.
31st October . . .	S.S. Rizwani . . .	8 7	83 7	0630	W	1	Rain.
31st October . . .	S.S. Havildar . . .	8 3	87 7	0630	SW	4	Continuous rain.
31st October . . .	S.S. Garbeta . . .	10 8	88 2	0630	SSW	3	

On the next morning, a trough of low pressure appeared over the region extending from the southwest Bay to the north Andaman Sea. During the course of the day, it concentrated into a depression in the north Andaman Sea with central region at 17 hrs. near Lat. 13½°N., Long. 95°E. At 8 hrs. of the 2nd, the depression became fairly deep and

was centred near Lat. 14°N., Long. 94°E. By this time, the cyclonic circulation extended in upper air up to a height of 4 km. The deep depression continued to move in a northwesterly direction and on the afternoon of the same day was centred near Lat. 15°N., Long. 93½°E. It then began to move in a northerly direction and at 8 hrs. of the 3rd was centred near Lat. 16½°N., Long. 93½°E. Thereafter, the depression began to weaken while recurving towards the Arakan coast and in the course of the next 24 hours became unimportant. Fairly widespread rain fell in Burma in connection with this depression during the first week of November.

19. *Severe Storm of 13th to 15th November 1935.*—The northeast monsoon strengthened in the south Bay of Bengal in the beginning of the second week of November and conditions became unsettled there by the 9th. Trincomalee recorded a heavy fall of 5″ on the 10th morning. The unsettled conditions became marked near Lat. 9°N., Long. 87°E. on the 10th. By the morning of the following day, they had concentrated into a depression near Lat. 9°N., Long. 86½°E. Port Blair reported 3″ of rain on that morning and ships to the west of the Nicobar Islands experienced moderate to rough seas and occasional rainsqualls. On the morning of the 12th, the depression was centred near Lat. 9½°N., Long. 85°E. and was showing signs of deepening, and several ships in the neighbourhood reported rough seas and rainsqualls. On this day, the upper winds over Madras were blowing from northeast with force 7 to 8 upto 1·5 km. and in the afternoon, strong northerly breeze was blowing all along the south Coromandel coast and seas were rough to very rough along the coast from Madras to Trincomalee. The depression was centred on the 13th morning near Lat. 10°N., Long. 84½°E. By the afternoon of that day, it developed into a cyclonic storm with central region at 17 hrs. near Lat. 10°N., Long. 84°E., the deficiency of pressure near the centre at this stage being of the order of 0·30″.

Continuing its westward movement, the cyclone intensified further and became a storm of severe intensity by 8 hrs. of the 14th when it was centred near Lat. 10°N., Long. 82°E. At this stage, the pressure deficiency near the core was of the order of half an inch. *S. S. Rohna* whose position in the early hours of the 14th lay about 50 miles to the southeast of the cyclonic centre was experiencing southwesterly winds of gale and storm force. Extracts from the log of this steamer are given below :—

Date.	Hour.	Position.		Wind.		Sea.	Swell.	Weather remarks.
		Lat. N.	Long. E.	Dir.	For.			
		° ′	° ′					
13	2 A.M.	9 16	83 53	WNW	6	Rough	Moderate	Overcast, showers and squalls.
	3 A.M.	9 18	83 45	W/N	6	Confused	Moderate	Overcast, showers.
	4 P.M.	9 20	83 39	WSW	7	..	Heavy	Overcast, showers and squalls.
	5 P.M.	9 21	83 31	WSW	7-8	Very rough	Heavy	Overcast, showers.
	6 P.M.	9 23	83 25	WSW	8	Very rough	Heavy	Overcast, showers.
	7 P.M.	9 24	83 18	SW/W	7	Very rough	Heavy	Overcast, showers.
	8 P.M.	9 26	83 11	SW/W	6	Rough	Heavy	Overcast, showers.
	9 P.M.	9 28	83 04	SW	5	Rough	Heavy	Overcast.
	10 P.M.	9 29	82 56	SSW	5	Rough	Heavy	Overcast.
	11 P.M.	9 34	82 44	S	3	Moderate	Heavy	Overcast.
	Midnight	9 38	82 38	S	2	Slight	Heavy	Overcast.
14	1 A.M.	9 40	82 30	S/W	7-8	Very rough	Confused	Overcast, rain, squalls.
	2 A.M.	9 41	82 33	S	10	Very high	Confused	Overcast, rain, squalls.
	3 A.M.	9 39	82 38	S/W	11	Very high	Confused	Overcast, rain, squalls.
	4 A.M.	9 36	82 40	S/W	9	Very high	Confused	Overcast, rain, squalls.
	5 A.M.	9 30	82 40	S	7-8	High	Confused	Overcast, Rain.
	6 A.M.	9 23	82 40	S/W	7	Very rough	Confused	Overcast, Rain.
	7 A.M.	9 18	82 40	SSW	6	Very rough	Confused	Overcast.
	8 A.M.	9 24	82 46	SSW	6	Very rough	Heavy	Overcast.

On the 14th noon, the cyclone was centred about 120 miles eastsoutheast of Negapatam and at 17 hrs. of that day about 70 miles to its eastsoutheast. It crossed the coast in the early hours of the 15th just to the south of Negapatam and lay as a deep depression near Trichinopoly at 8 hrs. of that day. Travelling thereafter across south Madras, it passed out into the southeast Arabian Sea off Malabar by the morning of the 16th. While moving further westwards, it caused moderate to heavy rain in Minicoy and Amini Devi Islands on that day. During the next 24 hrs., it continued to move westwards, weakening at the same time, and had become unimportant by the 19th morning.

In association with this storm, widespread and heavy rain fell in the south of the Peninsula, Kodaikanal registering 14″ during the 24 hrs. ending at 8 hrs. of the 16th; other noteworthy falls of 7″ and above are given in the table at the end of this account. According to newspaper reports, severe floods occurred in the rivers of south Malabar as a result of the heavy rain. Bridges were damaged and houses in flooded areas were submerged under water. An Arab vessel capsized near Calicut owing to rough seas. Railway and other vehicular traffic and telegraphic and electrical transmission were considerably dislocated in southeast Madras. Negapatam faced considerable damage and its municipal water supply was seriously interfered with. According to the report of the Port Officer, Negapatam, that port experienced, with the approach of the storm, rough weather with rainsqualls, high seas, confused swell and winds of gale or storm force between the evening of the 14th and the forenoon of the next day, after which the weather moderated. *S. S. Rohna* with mails, passengers, repatriates and cargo, due to arrive at Negapatam from Malaya on the 15th, could not call there owing to the weather conditions and was asked to proceed direct to Madras.

The following account of the winds and weather experienced by *S. S. Gogra*, which proceeded from Negapatam to Jaffna in order to avoid the fury of the storm, will be found interesting :—

" On 12th November, while lying in Negapatam roads, the vessel was compelled by rising wind and sea, to cease discharge of cargo and to shift anchorage to deep water. It then became apparent from the disturbance in weather conditions and from weather reports that there was a likelihood of a storm forming in the Bay and crossing the coast near the port. It was therefore considered prudent to proceed to the next port of call —Jaffna—in order to avoid, as far as possible, the force of the storm.

" In the morning of 13th November at 7-33 A.M., I. S. T., the anchor was weighed and the vessel proceeded. The wind which at the time was from NNW with force 6, veered to NNE at noon, but by 4 P.M. had backed again and was blowing steadily from north, still with force 6. Jaffna was reached at 5-05 P.M. and the vessel anchored off the port.

" Cessation of the barometer's diurnal range was now noticed together with a slight fall and the wind gradually backed, making it apparent that the vessel was in the left hand semicircle of the storm. By noon on 14th wind had backed to NW/W and was blowing with force 8. The sky was overcast and heavy continuous rain was falling. Although the sea was rough, the shoal water and partly landlocked condition of the anchorage prevented either sea or swell from attaining alarming height, and at no time was the swell more than moderate.

" The barometer continued to fall and the wind to back and increase until at 1 A.M. on 15th November when the barometer was at its lowest point—29·69″ (uncorr.). Temperature was 78°, and the wind was WSW with force 10, with very rough sea, moderate westerly swell, overcast sky and frequent fierce rainsqualls. It was judged that the storm was now about to cross the coast and this view was later confirmed by weather report.

" The force of the wind now gradually decreased, backing steadily the while, and the barometer commenced to rise, until by noon, 15th November, there was merely a strong breeze (force 6) from S/W with only a moderate sea and swell, while the barometer read 29·86″ (uncorr.), temperature, 79°. However, the weather continued squally during the afternoon, but by 8 P.M. was clearing rapidly and it was then deemed that the disturbance was over. This was also confirmed by weather report."

The following reports appeared in *The Hindu*, Madras, on the 19th November 1935 and give an idea of the great havoc played by the storm in the districts of Tanjore and South Arcot :—

" The storm which swept over Vedaraniam and Agastiyampalli and Point Calimere on the 14th instant was one of the severest that was ever experienced within the last forty years or so and it has played great havoc in this part of the country, resulting in loss of human lives and countless cattle and damage to about a thousand houses.

" The storm here was at its full velocity at midnight and people had to flee for safety leaving their belongings. Many hundreds of people were rendered homeless.

" The number of casualties has not yet been exactly known, since it is impossible to approach the village parts as communications have been cut off.

" From the information received so far from the affected villages, it is feared that about a hundred lives have been lost.

....

" The portion of the Agastiyampalli—Point Calimere Railway line, the construction of which was almost completed, covering the swamp area extending over six furlongs, had been washed away and the permanent way is hanging topsy-turvey. Positions of the earthwork near Point Calimere beyond the forest were also washed away to a length of about 300 feet on either side of the girder bridge and the loss by damage in this connection is estimated at about Rs. 15,000.

....

" The recent storm is reported to have caused considerable havoc to fruit-bearing trees in the Tiruturaipundi and Mannargudi Taluks, besides damage to dwelling houses. Mr. K. S. Sivasubramania Aiyer, M.L.C., has received information from Idumbhavanam village in Tiruturaipundi Taluk that more than 20,000 cocoanut trees were uprooted and the loss is estimated at a lakh of rupees. A number of poor

people have been rendered homeless. The loss of live stock is also reported from a number of villages. The Gopalasamudram school shed and the sheds put up in connection with the Health Week Celebrations came down due to heavy winds."

Some of the noteworthy falls of 7″ and above which occurred in south Madras in connection with the above storm are :—

Station.	15th.	16th.
	″	″
Tiruppundi (Tanjore)	7	..
Vedaraniam (Tanjore)	8	..
Muthupet (Tanjore)	7	..
Ilupur (Trichinopoly)	..	9
Marungapuri (Trichinopoly)	..	8
Aravakuruchi (Trichinopoly)	..	7
Annavasal (Pudukkotai State)	..	7
Ponnamaravati (Pudukkotai State)	..	8
Natham (Madura)	..	8
Dindigul (Madura)	..	7
Chatrapatti (Madura)	..	9
Dharapuram (Coimbatore)	..	7
Marayur (Travancore)	..	7

20. *Depression of 6th to 9th December 1935 in the Bay of Bengal.*—On the morning of the 5th December, an area of negative pressure departures appeared over the Andaman Sea and the neighbourhood indicating that conditions were becoming unsettled there. In the course of that day, the unsettled conditions developed into a depression which was centred at 8 hrs. of the 6th within a degree of Lat. 11°N., Long. 94°E. The depression moved northeastwards, weakening at the same time, and at 8 hrs. of the next day its centre lay in the neighbourhood of Lat. 13½°N., Long. 95½°E. Thereafter, it remained practically stationary and degenerated into a trough of low pressure area which became unimportant by the 9th. Under the influence of this disturbance, there was widespread rain in Tenasserim and the Andamans between the 4th and 8th.

21. *Low Pressure Wave of the 18th to 21st December 1935.*—Associated with the strengthening of the northeast monsoon, widespread moderate to heavy rain fell along the south Coromandel coast and in Ceylon on the 17th, Negapatam reporting 6″, Cuddalore 4″ and Trincomalee 3″. A concentrated area of pressure fall and negative pressure departure appeared over Ceylon on the 18th morning, when the movement of upper winds over Colombo showed a tendency to change from east to northeast or north. These facts suggested that weather was becoming unsettled in the southwest Bay to the east of Ceylon. The unsettled conditions became more marked by the afternoon of the same day, but thereafter travelled westwards without further intensification as a low pressure wave across Ceylon into the southeast Arabian Sea where it became unimportant by the 21st. Under the influence of this low pressure wave locally heavy rain again fell along the Coromandel coast and in Ceylon on the 19th, Negapatam reporting 6″ and Colombo 5″.

WESTERN DISTURBANCES.

The following is a list of the western disturbances which affected the weather in northern India during the year with the dates on which they did so and brief notes on the precipitation that they produced :—

Serial No.	Date.	Remarks.
	January.	
1	31st December 1934—3rd January 1935.	Local rain or snow in north Baluchistan and Kashmir and in the hills of the Punjab and the United Provinces with scattered falls of rain in the east United Provinces and Chota Nagpur on the 1st, widespread rain in the Punjab hills, the United Provinces, Bihar and Orissa and Chota Nagpur on the 2nd and light showers in Bengal, Assam and Upper Burma on the next day.
2	4—5 . .	A few falls of rain or snow in northeast Baluchistan, Kashmir and the Punjab hills on the 5th.
3	6—14 .	A few light showers in Baluchistan on the 6th and 7th, and fairly widespread rain or snow there on the next two days, in the North-West Frontier Province on the 10th and in Kashmir and the hills of the Punjab and the United Provinces between the 10th and 14th.
4	19—25 .	Local falls of rain or snow along the north-west frontier and in Kashmir and the Punjab between the 19th and 25th and light local showers in the United Provinces between the 23rd and 25th.
5	26—30 .	A few light showers in Baluchistan on the 26th, widespread rain from the north-west frontier to the central parts of the country between the 27th and 29th and light falls of rain or snow in the North-West Frontier Province, Kashmir, the hills of the Punjab and the United Provinces and in Assam on the 30th. (This disturbance developed into a storm in the northeast Arabian Sea off the Mekran—Sind coast. For a description, see page 1.)
	February.	
6	1—5 . .	Fairly widespread rain or snow in Baluchistan and Sind and from the North-West Frontier Province and Kashmir to Bengal and Assam.
7	4—9 . .	Local rain in the North-West Frontier Province on the 4th and in Baluchistan and Kashmir on the 4th and 5th; scattered light showers in north Bengal and Assam between the 6th and 9th.
8	9—17 .	Widespread rain or snow in Baluchistan, the North-West Frontier Province and Kashmir and local rain in Sind, the Punjab and the Kumaon hills between the 9th and 13th with locally heavy falls in Kashmir on the last day. Fairly widespread rain in Kashmir, the Punjab and the west United Provinces with scattered falls in east Rajputana on the 14th and 15th and light local showers in the east United Provinces, Bihar, Bengal, Assam and north Burma between the 16th and 17th.

Serial No.	Date.	Remarks.
	February—contd.	
9	17—20 .	Light showers over the western Himalayas between the 17th and 18th and in Bengal, Assam and Upper Burma on the next two days.
10	22—24 .	A few light showers along the western Himalayas between the 22nd and 24th.
11	23—27 .	Light showers along the frontier and in Kashmir on the 23rd and 24th and in the hills of the Punjab and the United Provinces between the 24th and 27th.
	March.	
12	1—2 . .	A few light showers in Baluchistan.
13	10—11 .	Local thunderstorm rain in the North-West Frontier Province and a few light showers in Kashmir.
14	14—15 .	Local falls of rain or snow in Kashmir on the 14th and 15th and in the North-West Frontier Province on the former date.
15	17—22 .	Local falls of rain or snow in Kashmir on the 19th and in the Punjab hills on the 19th and 20th. Widespread thunderstorm rain in Bengal and Assam with a few showers in Orissa and Upper Burma on the 21st.
16	22—24 .	Fairly widespread thunderstorm rain along the north-west frontier and the western Himalayas between the 22nd and 24th with widespread duststorms in the Punjab on the 23rd.
17	26—30 .	Thunderstorm rain from the north-west frontier and Kashmir to the west United Provinces between the 26th and 27th and local thundershowers in Chota Nagpur, Bengal and Assam between the 27th and 29th.
18	29—30 .	A few falls of rain in Kashmir on the 30th.
	April.	
19	1—6 . .	Widespread rain from the north-west frontier to the United Provinces on the 4th and 5th.
20	5—8 . .	Local rain in the north-west frontier on the 5th and 6th and along the western Himalayas between the 7th and 8th.
21	12—15 .	Fairly widespread rain along the north-west frontier and in Kashmir and the Punjab hills on the 12th, rainfall extending along and near the hills of the United Provinces on the next two days.
22	16—18 .	Caused no precipitation.
23	25—27 .	A few thundershowers in Kashmir and the North-West Frontier Province between the 25th and 27th.
	May.	
24	2—5 . .	Local thundershowers in the North-West Frontier Province and Kashmir and widespread duststorms along the north-west frontier and in and around the Punjab on the 3rd and 4th.

Serial No.	Date.	Remarks.
	April—contd.	
25	7—9 . .	A few thundershowers in Baluchistan on the 7th and scattered showers there and in the Punjab on the next two days.
26	10 . .	Scattered dust or thunderstorms in northwest India and west Rajputana on the 10th.
27	14—16 .	A few thundershowers in Baluchistan on the 14th, local thunderstorm rain there and in the Punjab hills and along the north-west frontier on the next two days; also duststorms in the southwest Punjab on the 16th.
28	20—21 .	Local thundershowers in the North-West Frontier Province, Kashmir and the north Punjab between the 20th and 21st.
29	28—30 .	Nearly general thunderstorm rain in Kashmir on the 28th and a few falls in the North-West Frontier Province on that day and in Kashmir on the next two days.
	June.	
30	9—12 .	Widespread dust or thunderstorms in the North-West Frontier Province and the Punjab with local thundershowers in Kashmir on the 10th and dust or thunderstorms in the Punjab hills and the United Provinces on the next day.
31	12—14 .	Fairly widespread thundershowers in the south-west Punjab, the North-West Frontier Province and Kashmir and scattered dust or thunderstorms in the Punjab hills and Baluchistan between the 13th and 14th.
32	14—16 .	Scattered thundershowers along the north-west frontier and in Kashmir with local dust or thunderstorms in the Punjab on the 15th and 16th.
33	20—24 .	Widespread dust or thunderstorms along and near the western Himalayas and in the plains of the Punjab between the 20th and 24th.
	July, August and September.	No well-defined western disturbances.
	October.	
34	9—14 .	Local rain in Kashmir with widespread rain in the Punjab hills on the 10th and 11th.
35	18—20 .	A few light showers in the North-West Frontier Province on the 19th and in Kashmir on the next day.
	November.	
36	6—9 . .	Local rain in Kashmir, the east and north Punjab and the west United Provinces on the 6th and 7th and in Assam on the 9th.
37	11—12 .	A few light shower in Kashmir on the 11th and 12th.
38	13—14 .	A few falls in the North-West Frontier Province, Kashmir and the Punjab hills on the 13th and local rain or snow in Kashmir on the next day.
39	19—20 .	Gave no precipitation.

Serial No.	Date.	Remarks.
	November—contd.	
40	23—29 .	Local rain or snow along the north-west frontier on the 24th and in Kashmir on the 24th and 25th; a few showers in the east and north Punjab on the 24th and in the Punjab hills on the next day; also a few light showers in Assam between the 27th and 29th.
41	29—30 .	A few light showers in Kashmir on the 30th.
	December.	
42	4—9 . .	Local rain in Kashmir between the 4th and 7th, fairly widespread rain in the east and north Punjab and the west United Provinces between the 7th and 9th and an extension of rain into east Rajputana, the central parts of the country and in the east United Provinces between the 6th and 9th.
43	8—11 .	Scattered falls of rain in the North-West Frontier Province, Kashmir and the west United Provinces between the 9th and 10th and thunderstorm rain locally in east Rajputana and the United Provinces and at a few stations in the central parts of the country between the 10th and 11th.
44	11—13 .	A few falls of rain in Baluchistan on the 12th and local rain or snow in Kashmir with a few light showers in the north-west frontier and the Punjab hills on the next day.
45	16 . .	Gave no precipitation.
46	18—20 .	Gave no precipitation.
47	21—22 .	A few light falls of rain in Kashmir on the 22nd.
48	22—24 .	A few light showers in Baluchistan on the 23rd and local rain or snow in Kashmir on the next day.
49	25—26 .	Gave no precipitation.
50	28—29 .	Scattered light falls of rain or snow in Kashmir on the 29th.
51	29—31 .	A few light fall of rain or snow in Kashmir on the 30th and 31st.
52	30 . .	Fairly widespread rain in Baluchistan on the 31st; the disturbance was still affecting the weather over the country at the end of the month.

LOCAL STORMS.

Of the local storms reported in the newspapers, the following are noteworthy :—

March 21st.—A severe thunderstorm, which passed over Rangoon at about 7 O'clock in the afternoon, damaged the telegraph lines causing a complete stoppage of telegraphic communication with India for nearly 20 hours. Nor'westers of severe intensity also occurred in the districts of east Bengal.

March 22nd.—A nor'wester blew over Noakhali for about an hour causing considerable damage. A Boy Scout Training Camp at Maijdi was blown off and some of the campers injured. At Banchhanagar several houses and trees were brought down and about a dozen persons severely injured.

A severe thunderstorm suddenly burst over Barisal Town and lasted about 20 minutes. A large number of trees and the roofs of several houses were blown down. Many boats sunk in the river Khariabad and two people were reported drowned.

March 29th.—A violent thunderstorm passed over Darjiling causing considerable damage. It lasted for threequarters of an hour and the whole town was plunged in darkness due to the break-down of electric wires. Telephone connection was also dislocated.

April 1st.—A severe hailstorm occurred at Jamshedpur during the night. The mango crops suffered heavily and considerable damage was done to tiled houses and telephone wires.

April 5th.—Two persons were struck by lightning and killed near Ambala during a severe hailstorm.

April 6th.—About 20 persons were injured and several houses damaged as a result of a hailstorm which passed over Lohardaga (Ranchi). Ten of the injured persons had to be treated in hospital.

—During a violent thunderstorm followed by heavy rain at Narsobavadi in Kurundwad State near Kolhapur six Mahars who had taken shelter near a hay-stack lost their lives being buried under the hay-stack when it collapsed.

—Herds of cattle were killed and the roofs of many houses were blown away as the result of a severe hailstorm which passed over Banda. Two boats were sunk in the Ken river and the pontoon bridge across the river was damaged rendering traffic unsafe. Some of the hail-stones were reported to be as big as cricket balls and several villagers who were caught in the storm were seriously injured.

—A severe hailstorm caused a great deal of damage to the standing crops in 50 villages in Kasur Division, Lahore District. It is reported that some of the hail-stones weighed as much as 20 tolas (½ lb.).

April 15th.—Four people were killed when a house collapsed during a severe thunderstorm which passed over Sylhet.

April 16th.—Calcutta experienced a severe thunderstorm between 7 and 8 P.M. At one period the wind attained a velocity of 71 miles per hour and the storm was accompanied by heavy rain. Several trees which were blown down fell on the tram line wires, wrecking them and bringing all traffic to a stand-still for several hours. An Inspector of the Tramways was electrocuted. The electric lights failed in several parts of the city and the telegraphic communications were also interrupted.

April 17th.—One man and two women were struck by lightning and killed in a village about 40 miles from Madura.

April 21st.—A woman was struck by lightning and killed at Vithalpeth, Jalgaon.

April 22nd.—During a severe thunderstorm, accompanied with hail, which passed over Trimulgherry near Secunderabad, a woman and a boy were killed by lightning.

April 23rd.—A man and his cattle were struck by lightning and killed when a thunderstorm passed over the village of Bokhara in Bareilly District.

April 25th.—A country boat carrying merchandise was overturned by a heavy gale and sunk in the Godavari near Bhimavaram. The loss is estimated to be Rs. 8,000.

April 27th.—A cartman was killed and two women seriously injured when a nor'wester passed over a number of villages near Sutahata (Midnapore, Bengal). Many houses in the villages of Sandhya Chak and Tarwan Chak were blown down. The storm was accompanied by a water-spout which was visible near the junction of the river Cossai and the Hooghly.

—While ploughing a field near Kodumalore village (south-east Madras) two men were struck dead by lightning.

May 14th.—During a thunderstorm at Bogra, a middle-aged woman while picking mangoes was killed by a fall of a branch of a big mango tree.

—The severity of the gale was so great that several wagons of a goods train running between Gabtali and Sukhanpukur were derailed blocking the traffic for some time.

—A carpenter was struck dead and two people were seriously injured by lightning at Kodaikanal.

—A severe thunderstorm which passed over Sansabari (Tangail) at about 3-30 P.M. blew away the roofs of many public buildings and jute godowns. One of the jute godowns which completely collapsed caused the death of one person and injuries to several coolies.

May 20th.—Five persons were reported killed and many more injured in a severe thunderstorm which passed over Natore Town. The storm was accompanied by a heavy shower; several trees were uprooted, telegraph wires were blown down and about 100 houses were razed to the ground.

May 21st.—A man was struck by lightning and killed instantaneously in the village Balakolla near Ootacamund.

May 25th.—Two persons were killed and fourteen injured in a severe thunderstorm which passed over 40 villages in Gurdaspur and Singrathana. At Chandrapur (Bengal) several houses were demolished and many boats capsized in the river.

June 1st.—A passenger train was blown off the track in a violent thunderstorm between Purulia and Muri on the B. N. Railway. The force of the wind was so great that it caused several of the vehicles to fall on their sides. No serious injuries were caused to passengers, but 23 passengers had to receive medical attention.

June 6th.—Several people were injured, a man was killed and considerable damage to property was caused when a violent duststorm followed by a heavy shower swept over Nasik. The duststorm raged for about an hour uprooting hundreds of trees. Electric wires were damaged and the city was plunged in darkness till midnight.

June 9th.—A violent thunderstorm passed over the northern parts of the Berhampore District (Bengal) causing extensive damage. At Lalbagh, a place about 7 miles to the north of Berhampore, a big banian tree was uprooted and three men were crushed to death and two others severely injured. At Manykuyahar, a village about 20 miles from Berhampore, the thunderstorm was accompanied by hail. Several men and a large number of cattle were injured. Two boats at Azimganj capsized in the river, but the occupants were rescued.

June 11th.—A violent duststorm swept over the west United Provinces, uprooting trees, damaging telegraph wires and mango crops and causing a series of accidents. A serious road accident occurred at Khandauli near Agra when blinded by the duststorm the drivers of two lorries coming from opposite directions collided, resulting in some deaths and injuries to several passengers.

June 15th.—A flock of 150 sheep and a horse with its rider were struck by lightning and killed in Maindargi, a village in Akalkot State.

June 16th.—In the village of Kedagaon, three miles from Ahmednagar, three women and two bullocks were struck dead by lightning.

June 22nd.—Some huts in the Harijan locality at Kolki, Gondal State, were burnt down by lightning. Fourteen Harijans were reported killed and four injured.

June 24th.—Two deaths and extensive damage to property and telegraph wires were caused by lightning and a severe thunderstorm in Batala 60 miles from Lahore in Gurdaspur District.

June 29th.—Lightning struck a building as a result of which about 50,000 bales of grass caught fire. The blaze continued for nearly 24 hours. Four buffaloes were also killed.

July, first week.—A man was killed by lightning in Karasar, a village near Bahraich.

—Several dust or thunderstorms occurred in the Punjab and the North-West Frontier Province and caused considerable damage to crops and buildings, dislocation of railway and other vehicular traffic, and break-down of electric and telephonic connection.

July 4th.—A severe thunderstorm accompanied by a sharp shower passed over Delhi as a result of which several trees were uprooted and many buildings damaged. Electric and telephonic connections were broken down and some parts of the town were plunged in darkness.

July 8th.—During a duststorm at Peshawar, a gust of 70 m. p. h. was experienced.

July 10th.—A violent thunderstorm swept over Mohalberia, a village near Jamshedpur, blowing away hundreds of huts and injuring several persons.

July 27th.—During a thunderstorm in Kheri village in Gurdaspur District, lightning struck and killed a cartman and set his cart on fire. The bullocks stampeded with the blazing cart and knocked down and killed a young girl.

July 28th.—A person was killed and two others were injured at Dadu (Sind) during a severe duststorm.

August 8th.—Three shepherds while grazing their sheep were killed by lightning in a field near Mallapuram hills, Madura District.

August 12th.—Owing to strong wind two houses collapsed at Nar in Gujarat. Two persons who were buried in the debris died. Two others received serious injuries.

August 14th.—Two persons were reported killed and two others injured when two houses collapsed during a thunderstorm in a village in Kaira District.

September 14th.—A hailstorm which raged for about 2 hours destroyed all paddy crops in Maduar and Chayaduar in Tezpur District. Several trees were uprooted and many huts damaged.

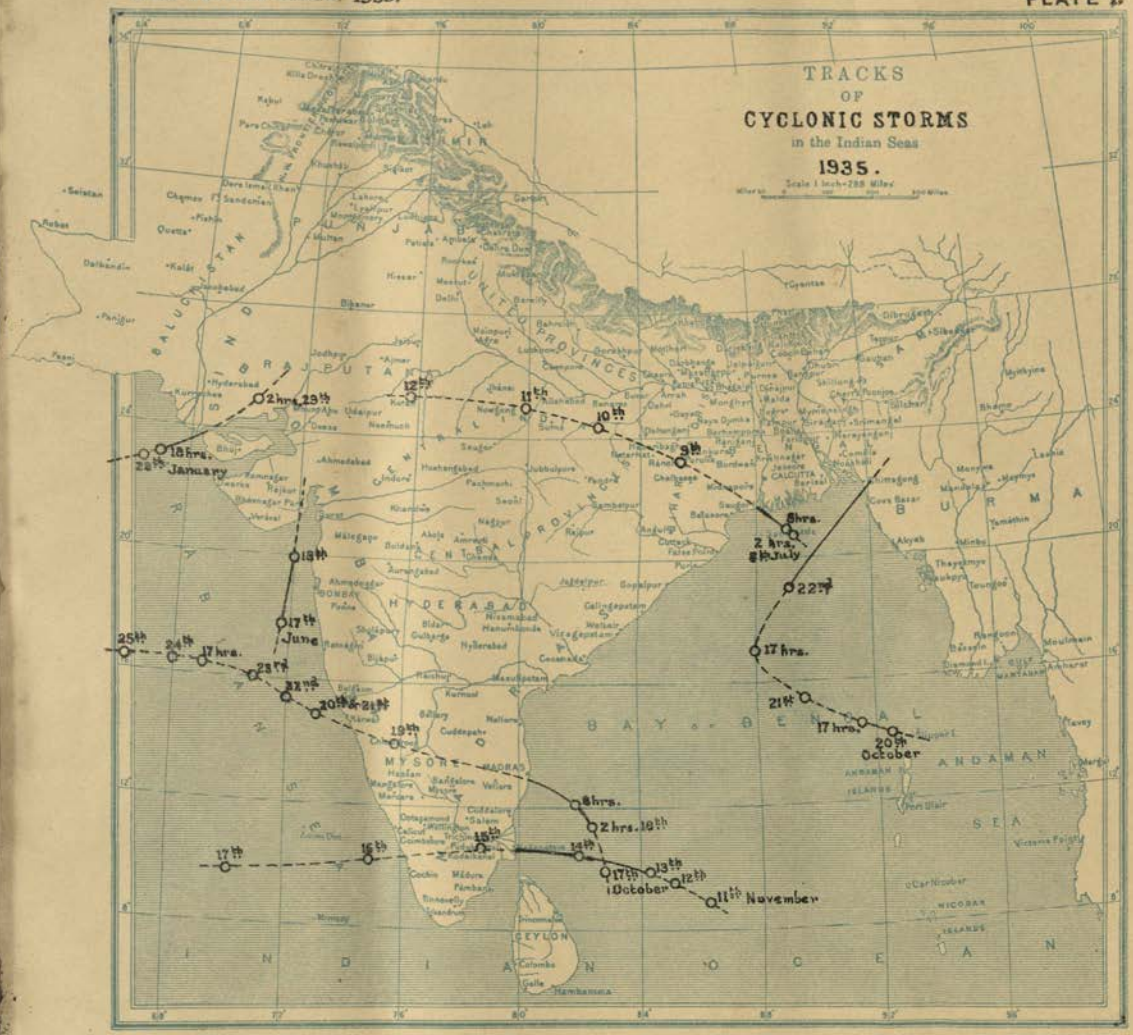
November 5th.—Lightning struck a building at Keezhillam near Perumbavoor in Travancore. A youth who was inside the house met with instantaneous death.

WINDS OF FORCE NINE OR MORE IN INDIAN SEAS.

Excluding dates of storms and depressions, a description of which has been given above, winds of force nine or more were recorded on ships in the Indian seas during the year 1935 on the following occasions :—

Date.	Name of ship.	Approximate Position.	
		Lat. °N.	Long. °E.
28th January .	S.S. Masimpur . .	24	67
3rd July . .	S.S. Clan Murray . .	13	57
17th July . .	S.S. Lichtenfels . .	13·12	55·57

MGIPC—M—VIII-3-207—24-4-37—520.



Reg. No. 44. S.I.O.—14.1.37.—1,200.

The tracks in the Arabian Sea of the Storms of 27th to 29th January 1935 and 17th to 25th October 1935 which lie outside the boundaries of the map are defined by the following positions :-

	Lat.N.	Long.E.		Lat.N.	Long.E.
(1) 27th January 1935	22°½	62°			
(2) 26th November 1935	16°½	65°;	27th November 1935	16°½	64°

---------- Depression ———— Storm ———— Severe Storm.

PLATE H.

Reg. No. 44, S.I.O.—14-1-37.—1,200.

DGO. 9. 35D.
290.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1935

ANNUAL SUMMARY

PART D.

SEISMIC RECORDS.

LIBRARY OF THE BOMBAY BRANCH OF THE ROYAL ASIATIC SOCIETY

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Published by Authority of the Government of India

UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.,

Director General of Observatories.

PUBLISHED BY MANAGER OF PUBLICATIONS, DELHI
PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, NEW DELHI
1936.

Price Rs. 5 As. 8 or 9sh.

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ERRATUM: OMIT THE COLUMN "ε" FROM THE TABLES OF CONSTANTS OF MILNE-SHAW SEISMOGRAPH PRINTED AT THE TOP OF THE BOMBAY SEISMIC DATA FOR THE YEARS 1923 TO 1931.

Errata to India Weather Review, 1935, Annual Summary, Part D.

Page.	Place.	*For.*	*Read.*
D 4	April 16, hour 0 44 50, column phase	$\overline{iS}$	$\overline{iS}$
D 8	July 29, hour 7 52 39, column phase	P^1	P'
D 9	August 23, hour 14 13 9, column phase	SR	SR_1
D 15	January 1, hour 13 38 46, column phase	$eP^1(?)$	$eP'(?)$
D 23	July 29, hour 8 1 22, column phase	$\overline{ScPc\ PcS}$	$\overline{ScPc\ PcS}$
D 29	December 28, hour 2 53, column amplitude	12	>1250
D 30	Station co-ordinates, height above M. S. L.	7. slight 1 metre	7.1 metres
D 31	January 31, hour 12 3 10, column phase	P	$\overline{P}$
D 36	September 15, hour 14 30 7, column phase	P_1	P'
D 39	December 14, hour 22 24 59, column phase	P_1	P'
D 43	May 30, hour 21 51, column amplitude	7334	>334
D 44	July 29, hour 7 52 17, column phase	eP_1	eP'

INDIA WEATHER REVIEW, 1935.

ANNUAL SUMMARY.

PART D.

SEISMIC RECORDS.

Station—Upper Air Observatory, Agra.

Lat. 27° 8′ 15″ N. *Long.* 78° 0′ 45″ E.

Height above m. s. l. 163 metres. *Lithologic Foundation*—Indo-Gangetic Alluvium.

Instruments—Omori-Ewing Seismograph North-South (N) component, and Milne-Shaw Seismograph East-West (E) component, both installed in an underground constant temperature room.

INSTRUMENTAL CONSTANTS.

Component	Steady mass (Kg.)	T (sec.)	Vm	ε	Paper speed (mm./min.)
N	45	32·5	29	1	12
E	0·47	12	250	20:1	8

TABLE D_1.

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.		1935.			H. M. S.	Sec.	μ	Km.	
Jan. 2	E	eP	22 25 34	...	...	940	Apparently an after shock of the great Tibet earthquake of Dec. 15, 1934.	Jan. 4	E	P	8 3 10	...	...	975	
		$eP\overline{P}$	26 24	...	...	...				$\overline{P}$	3 58	...	...	...	
		S	27 14	...	...	...				S	4 55	...	...	...	
		SR_1	27 26	...	...	...				F	26 ...	...	...	...	
		$\overline{S}$	28 31	...	...	...		Jan. 4	E	e	10 27 34	...	...	...	
		Mn	30 12	7	11	...				F	55 ...	...	...	...	
Jan. 3	N,E	iP	1 52 34	...	...	980	Great Epc : Tibet.	Jan. 4	E	iP	14 49 34	...	...	4820	Epc : Turkey. Destructive in Marmara Islands.
	N	iS	54 18	...	...	...				PR_1	51 3	...	...	...	
	N	$\overline{S}$	55 8	...	...	...				iPR_2	51 44	...	...	...	
	N	Mn	... ...	...	>897	...	Motion of recording pen restricted by side-stops for about 3 minutes.			iS	56 3	...	...	...	
	N	F	3 23 ...	...	...	...				SR_1	58 39	...	...	...	
Jan. 3	E	e	14 36 41	...	...	...				SR_2	59 51	...	...	...	
		F	45 ...	...	...	...	Tremors.			L	15 2 29	...	...	...	
Jan. 3	E	F	17 15 ...	...	...	...	Do.			Mn	6 14	...	...	...	
Jan. 3	E	e	18 22 13	...	...	...	Do.			F	Covered by the following shock.				
Jan. 3	E	e	18 31 19	...	...	...	Do.	Jan. 4	E	P	16 28 8	...	...	4820	Aftershock of the Turkey earthquake.
Jan. 3	E	e	22 43 22	...	...	...				ePR_1	29 39	...	...	...	
Jan. 4	E	e	5 10 2	...	...	900				PR_2	30 22	...	...	...	
		S	10 39	...	...	...				S	34 37	...	...	...	
		$\overline{S}$	11 34	...	...	...				SR_1	37 27	...	...	...	
		F	22 ...	...	...	...				SR_2	38 27	...	...	...	
										L	41 3	...	...	...	
										Mn	47 5	16	25	...	
										F	Covered by the following shock.				

TABLE D_1—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Jan. 4	E	e	17 55 31	...	...	...	
		F	18 7 ...	...	...	...	
Jan. 4	E	e	21 49 27	...	...	...	
		F	22 0 ...	...	...	...	
Jan. 4	E	e	23 51 34	...	...	...	
		F	0 3 ...	...	...	...	
Jan. 5	E	P	10 14 49	...	...	4555	
		iS	21 5	...	...	...	
		F	11 1 ...	...	...	...	
Jan. 5	E	e	16 26 55	...	...	..	
		F	17 1 ...	...	...	...	
Jan. 6	E	iP	7 12 33	...	...	945	
		$\overline{P}$	13 26	...	...	...	
		iS	14 15	...	...	...	
		S•	14 48	...	...	...	
		$\overline{S}$	15 14	...	...	...	
		Mn	16 42	11	13	...	
		F	43 ...	...	...	...	
Jan. 6	E	e	11 26 7	...	...	...	
		F	44 ...	...	...	...	
Jan. 6	E	e	17 59 27	...	...	...	
		F	18 12 ...	...	...	...	
Jan. 7	E	i	2 55 1	...	...	...	Felt at Gauhati in Assam.
		F	57 ...	...	...	...	
Jan. 7	E	e	12 45 39	...	...	...	
		F	52 ...	...	...	...	
Jan. 8	E	e	13 4 49	...	...	...	
		F	38 ...	...	...	...	
Jan. 9	E	e	4 18 31	...	...	...	Slight.
		S	14 44	...	...	...	
		$\overline{S}$	15 44	...	...	...	
		F	Covered by the following shock.				
Jan. 9	E	i	4 20 6	...	...	...	
		F	31 ...	...	...	...	
Jan. 9	E	e	16 45 5	...	...	...	
		F	57 ...	...	...	...	
Jan. 10	E	e	11 26 29	...	...	...	
		i	27 35	...	...	...	
		F	52 ...	...	...	...	
Jan. 11	E	eP	0 15 43	...	...	4445	
		PR_2?	17 41	...	...	...	
		S	21 49	...	...	...	
		SR_2	24 56	...	...	...	
		F	Lost while changing the chart.				

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Jan. 11	E	e	21 15 59	...	...	...	
		e	18 7	...	...	...	
		F	41 ...	...	...	...	
Jan. 13	E	e	20 7 10	...	...	...	
Jan. 14	E	e	2 16 7	...	...	...	
		i	20 37	...	...	...	
		F	49 ...	...	...	...	
Jan. 14	E	e	22 36 12	...	...	...	
		i	43 26	...	...	...	
Jan. 17	E	i	2 32 25	...	...	...	
Jan. 18	E	i	2 13 50	...	...	...	
Jan. 18	E	e	17 21 40	...	...	...	
		Mn	41 35	16	10	...	
		F	18 25 ...	...	...	...	
Jan. 19	E	i	17 57 32	...	...	...	
		F	18 1 ...	...	...	...	
Jan. 22	E	e	8 16 28	...	...	...	
		F	29 ...	...	...	...	
Jan. 22	E	i	15 7 34	...	...	...	
		i	16 18	...	...	...	
		F	16 40 ...	...	...	...	
Jan. 23	N, E	P	7 36 20	...	...	9200	Epc : Near Alaska.
	E	PR_2	39 26	...	...	...	
	E	ScPcS	46 25	...	...	...	
	N	ScPcS ?	46 30	...	...	...	
	E	PS	47 27	...	...	...	
	N, E	SR_1	52 17	...	...	...	
	E	SR_2	55 30	...	...	...	
	E	L	8 3 27	...	...	...	
	E	Mn	15 46	19	76	...	
	N	Mn	17 44	22	126	...	
	E	F	11 14 ...	...	...	...	
Jan. 26	E	e	18 13 21	...	...	...	
		F	35 ...	...	...	...	
Jan. 31	E	eP	12 3 43	...	...	1355	
		S	6 8	...	...	...	Felt at Jorhat in Assam.
		F	23 ...	...	...	...	
Jan. 31	E	e	18 2 58	...	...	...	
		i	10 ...	...	...	...	
Feb. 2	E	e	15 33 36	...	...	...	
		i	35 11	...	...	...	
		F	44 ...	...	...	...	
Feb. 2	E	e	23 29 32	...	...	...	
		F	38 ...	...	...	...	

TABLE D_1—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Feb. 3	N	P	2 13 9	...	...	1000	Felt in North India.
	E	iP	13 5	...	...	...	
	N	iS	15 2	...	...	...	
	E	iS	14 59	...	...	...	
	E	F	3 39 ...	...	...	...	
Feb. 3	N	e	16 42 33	...	...	...	
	E	e	41 9	...	...	...	
	E	Mn	47 30	10	7	...	
	N	F	17 5 ...	...	...	...	
	E	F	34 ...	...	...	...	
Feb. 4	E	i	8 2 25	...	...	...	
		F	39 ...	...	...	...	
Feb. 4	E	e	21 16 35	...	...	...	
		i	24 4	...	...	...	
		F	50 ...	...	...	...	
Feb. 7	E	e	17 37 17	...	...	...	
		e	43 33	...	...	...	
		F	18 34 ...	...	...	...	
Feb. 19	E	e	20 19 37	...	...	...	
		e	27 11	...	...	...	
		F	21 15 ...	...	...	...	
Feb. 21	E	e	18 44 11	...	...	...	
		i	48 59	...	...	...	
		F	19 26 ...	...	...	...	
Feb. 22	N	e	9 19 16	...	...	...	
	E	e	4 25	...	...	...	
	E	Mn	21 27	14	10	...	
	E	F	58 ..	...	...	...	
Feb. 22	N	e	17 17 28	...	...	8045	Epc : Aleutian Archipelago.
	E	eP	17 23	...	...	...	
	E	PE_1	20 19	...	...	...	
	E	S	26 43	?...	...	...	Failure of light near S.
	E	SE_1	31 39	?...	...	...	
	E	SE_2	34 25	...	...	...	
	E	L	40 35	...	...	...	
	N	Mn	46 55	23	53	...	
	E	Mn	49 10	19	179	...	
	N	F	18 48 ...	...	...	...	
Feb. 23	E	i	3 58 52	...	...	...	
		F	5 1 ...	...	...	...	
Feb. 23	E	e	21 14 17	...	...	...	
		F	35 ...	...	...	...	
Feb. 25	N	e	2 59 47	...	...	4580	
	E	iP	59 41	...	...	...	
	N	i	3 6 22	...	...	...	
	E	S	6 4	...	...	...	
		SE_1	8 24	...	...	...	
		SE_2	9 23	...	...	...	
		F	4 23 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.		Km.	
Feb. 27	E	P	9 18 29	...	...	5545	
		S	25 47	...	...	...	
		F	10 16 ...	...	...	...	
Mar. 2		e	6 10 25	...	...	...	
		F	23 ...	...	...	...	
Mar. 3	E	eP	22 48 29	...	...	1055	
		iS	50 13	...	...	...	
		S*	50 53	...	...	...	
		eS?	51 29	...	...	...	
		Mn	53 3	10	8	...	
		F	23 16 ...	...	...	...	
Mar. 4	E	P	16 17 37	...	...	1055	
	N	e	19 23	...	...	...	
	E	S	19 21	...	...	...	
	E	S	20 33	...	...	...	
	E	Mn	22 23	8	9	...	
	N	F	43 ...	...	...	...	
	E	F	52 ...	...	...	...	
Mar. 5	E	e	3 33 5	...	...	...	
		i	35 15	...	...	...	
		F	44 ...	...	...	...	
Mar. 5		e	10 31 46	...	...	...	
		e	35 58	...	...	...	
Mar. 5	N, E	iP	22 16 51	...	...	310	Epc : Rohilkhand in U. P. Felt through out North India.
	N	iS	17 45	...	...	...	
Mar. 6	E		0 1	...	...	...	
Mar. 7	E	e	7 32 37	...	...	...	
		F	54 ...	...	...	...	
Mar. 7	E	e	10 46 41	...	...	...	
		F	11 29 ...	...	...	...	
Mar. 11	E	e	11 36 37	...	...	...	
		e	40 1	...	...	...	
		Mn	51 25	15	6	...	
		F	12 22 ...	...	...	...	
Mar. 11	E	e	15 21 13	...	...	...	
Mar. 11	E	e	20 13 54	...	...	...	
		F	30 ...	...	...	...	
Mar. 13	E	e	3 19 1	...	...	...	Felt at Netrakona in Bengal.
		i	21 11	...	...	...	
		F	45 ...	...	...	...	
Mar. 15	N, E	P	10 34 42	...	...	310	A slight aftershock of Rohilkhand earthquake.
	N, E	iS	35 37	...	...	...	
	N	F	47 ...	...	...	...	
	E	F	11 2 ...	...	...	...	

TABLE D_1—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Mar. 15	E	e	12 7 5	...	...	...	
Mar. 15	E	e	12 30 55	...	...	...	
		F	58 ...	...	...	...	
Mar. 16	E	e	8 0 2	...	...	...	
		i	7 53	...	...	...	
		F	46 ...	...	...	...	
Mar. 17	E	i	13 14 6	...	...	...	
		F	17 ...	...	...	...	
Mar. 17	E	e	20 31 36	...	...	...	
		F	45 ...	...	...	...	
Mar. 17	E	e	22 40 4	...	...	...	
		F	23 5 ...	...	...	...	
Mar. 20	E	ePcP	23 9 49	...	...	9500	
		$\overline{ScPcS}$	20 11	...	...	...	
		PS	21 11	...	...	...	
		SR_1	25 55	...	...	...	
		F	Masked by the following shock.				
Mar. 21	N,E	iP	0 6 36	...	...	1110	Epc : North Bengal.
	N,E	S	8 40	...	..	...	Felt practically throughout Bengal.
	N,E	F	Lost while changing chart.				
Mar. 21	E	e	8 27 51	...	...	...	
		F	42 ...	...	...	...	
Mar. 24	E	i	0 2 2	...	...	...	
		Mn	5 32	10	7	...	
		F	25 ...	...	...	...	
Mar. 28	E	i	23 55 22	...	...	...	
		i	0 1 22	...	...	...	
		F	Lost while changing chart.				
Mar. 29	E	e	12 44 ...	...	...	...	
		i	53 34	...	...	...	
Mar. 30	E	ePcP	21 29 1	...	...	5700	
		iS	36 30	...	...	...	
		PS	37 1	...	...	...	
		eSR_1	40 11	...	...	...	
		Mn	54 47	15	18	...	
		F	23 16 ...	...	...	...	
Mar. 31	E	e	3 37 17	...	...	...	
		F	4 12 ...	...	...	...	
Apr. 3	E	e	6 59 45	...	...	...	
		F	8 14 ...	...	...	...	
Apr. 3	E	e	10 2 48	...	...	...	
		F	9 ...	...	...	...	
Apr. 3	N	ePcP	11 14 35	...	...	1078	Epc : Along western border of Kashmir in N.-W. F. Province.
	E	iP	14 31	...	...	...	
	N,E	iS	16 31	...	...	...	
	N	F	39 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.		μ	Km.	
Apr. 5	E	i	18 56 41	...	...	...	
		F	19 8 ...	...	...	...	
Apr. 10	E	e	12 26 52	...	...	...	
		F	13 32 ...	...	...	...	
Apr. 10	E	e	19 48 57	...	...	...	
		F	20 10 ...	...	...	...	
Apr. 11	E	iP	1 22 46	...	...	2455	
	N	ePcP	22 52	...	...	...	
	E	iS	26 48	...	...	...	
	N	eS	27 ...	...	...	...	
	E	SR_1	27 47	...	...	...	
	E	L	29 9	...	...	...	
	E	Mn	34 30	16	33	...	
	E	F	3 13 ...	...	...	...	
Apr. 11	E	e	4 36 26	...	...	...	
		F	56 ...	...	...	...	
Apr. 11	N	e	23 19 51	...	...	2645	Epc : Iran (Near Caspian Sea) Destructive.
	E	iP	19 44	...	...	...	
	E	PR_1	20 27	...	...	...	
	N,E	iS	24 2	...	...	...	
	E	SR_1	24 58	...	...	...	
	E	L	26 14	...	...	...	
	N,E	F	Lost while changing chart.				
Apr. 12	E	P	1 11 41	...	...	2565	An aftershock of the Iranian Earthquake.
		PR_1	12 7	...	...	...	
		S	15 51	...	...	...	
		SR_1	16 47	...	...	...	
Apr. 12	E	iP	12 49 34	...	...	2620	Do.
		PR_1	50 3	...	...	...	
		iS	53 46	...	...	...	
		SR	54 36	...	...	...	
		Mn	13 0 14	11	14	...	
		F	14 0 ...	...	...	...	
Apr. 12	E	P	22 36 54	...	...	2620	An aftershock of the Iranian Earthquake.
		ePR_1	37 23	...	...	...	
		iS	41 7	...	...	...	
		SR_1	42 11	...	...	...	
		F	23 21 ...	...	...	...	
Apr. 16	E	e	0 43 5	...	...	...	Felt at Darbhanga.
		iS	44 50	...	...	...	
		F	Lost while changing chart.				
Apr. 18	E	e	15 6 26	...	...	...	
		F	32 ...	...	...	...	

TABLE D_1—*contd.*

Date	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Apr. 19	N	e	15 32 55	...	...	5965	
	E	iP	32 49	...	...	...	
	E	PR_1	34 50	...	...	...	
	E	PR_2	35 50	...	...	...	
	N	i	40 16	...	...	...	
	E	iS	40 25	...	...	...	
	E	PS	40 59	...	...	...	
	E	SR_1	44 11	...	...	...	
	E	SR_2	45 58	...	...	...	
	E	L	49 22	...	...	...	
	N	Mn	55 41	26	517	...	
	E	Mn	58 15	20	258	...	
	E	F	19 53 ...	...	...	...	
Apr. 19	E	e	20 43 13	...	...	...	
	E	e	48 40	...	...	...	
	E	F	22 8 ...	...	...	...	
Apr. 20	E	P	5 20 11	...	...	5920	
		PR_1	22 31	...	...	...	
		iS	27 52	...	...	...	
		PS	28 23	...	...	...	
		SR_1	31 31	...	...	...	
		L	36 43	...	...	...	
		Mn	45 30?	20	...	...	
Apr. 20	E	i	7 51 47	...	...	...	
		F	57 ...	...	...	...	
Apr. 20	N	e	22 9 47	...	...	4300	Great. Destructive in Formosa. △ from (P—SR_2) interval.
	E	P	9 21	...	...	...	
	E	PR_2	10 45	...	...	...	
	E	iS	15 11	...	...	...	
	E	SR_1	17 40	...	...	...	
		SR_2	18 25	...	...	...	
Apr. 20	E	L	22 20 13	..	...	...	
	N	M	23 36	...	...	...	
	N	Mn	25 36	19	220	...	
	E	Mn	27 24	...	...	...	
	N	F	23 25 ...	...	...	...	
	E	F	Lost while changing chart.				
Apr. 21	E	e	7 36 24	...	...	...	
	E	iS	41 19	...	...	...	
	E	Mn	55 7	19	12	...	
	E	F	9 3 ...	...	...	...	
Apr. 22	E	i	13 21 31	...	...	...	
		F	37 ...	...	...	...	
Apr. 23	N,E	P	16 49 11	...	...	1465	Felt practically throughout the Province of Bengal.
	N,E	iS	51 48	...	...	...	
	N	F	71 22 ...	...	...	...	
	E	F	18 0 ...	...	...	...	

Date	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Apr. 24	E	iP	15 58 42	...	...	2765	
		PR_1	59 7	...	...	...	
		S	16 3 5	...	...	...	
		SR_1	4 10	...	...	...	
		L	5 22	...	...	...	
		Mn	8 42	11	21	...	
		F	17 38 ...	...	...	...	
Apr. 24	E	e	17 53 29	...	...	...	
		i	54 39	...	...	...	
		Mn	55 56	12	7	...	
		F	18 12 ...	...	...	...	
May 1	E	ePP	10 30 59	...	...	3490	Destructive in the district of Kars in N. E. Turkey.
	E	PR_1	31 55	...	...	...	
	N,E	S	36 14	...	...	...	
	E	SR_2	38 2	...	...	...	
	E	L?	40 22	...	...	...	
	N	F	11 11 ...	...	...	...	
	E	F	12 15 ...	...	...	...	
May 4	E	e	23 11 23	...	...	...	
		F	Lost while changing chart.				
May 7	E	eP	6 4 21	...	...	5490	
		S	11 33	...	...	...	
		Mn	28 54	...	...	...	
		F	7 25 ...	...	...	...	
May 10	E	eP	17 9 29	...	...	2700	
		S	13 45	...	...	...	
		SR_2	14 49	...	...	...	
		eL	16 6	...	...	...	
		eM	18 13	...	...	...	
		F	18 14 ...	...	...	...	
May 12	E	eP	5 23 ...	...	...	1165	
	E	eS	25 8	...	...	...	
	N,E	S	26 22	...	...	...	
	E	Mn	27 13	11	29	...	
	E	F	6 9 ...	...	...	...	
May 13	E	e	2 19 17	...	...	...	
		F	33 ...	...	...	...	
May 13	N,E	eP	19 58 31	...	...	2510	
		PR_2	59 9	...	...	...	
	N	eS	20 2 45	...	...	...	
	E	iS	2 38	...	...	...	
	N	eSR_1	3 37	...	...	...	
	E	SR_1	3 31	...	...	...	
	N	eL	4 51	...	..	...	
	E	L	4 47	...	...	...	
	E	M	6 47	...	...	...	
	E	Mn	9 49	12	36	...	
	N	F	39 ...	...	...	...	
	E	F	22 4 ...	...	...	...	

TABLE D_1—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	Δ	Remarks
1935.			H. M. S.	Sec.	μ	Km.	
May 14	E	ePR_1	23 43 5	...	...	13000	Δ From (PS—ePR_1)
		ScPcS	48 33	...	...	...	
		PS	52 51	...	...	...	
		F	Masked by the following shock.				
May 15	E	P	2 3 48	...	...	945	Felt in some parts of Upper Sind.
	N,E	P	4 18	...	...	...	
	N,E	S	5 31	...	...	...	
	N	F	45 ...	...	...	...	
	E	F	3 54 ...	...	...	...	
May 16	E	eP	17 27 12	...	...	1265	
	N,E	S	29 30	...	...	...	
	E	M	31 18	...	...	...	
	N	F	18 46 ...	...	...	...	
	E	F	47 ...	...	...	...	
May 16	E	e	21 1 21	...	...	...	
		F	23 31 ...	...	...	...	
May 21	E	P	4 24 45	...	...	975	Felt at Dhubri, Assam.
	N,E	P*	25 12	...	...	...	
	E	P	25 38	...	...	...	
	N,E	S	26 29	...	...	...	
	N	S*	27 3	...	...	...	
	N,E	S	27 37	...	...	...	
	N	F	54 ...	...	...	...	
	E	F	5 2 ...	...	...	...	
May 21	E	iP	7 8 12	...	...	7955	
		iS	12 35	...	...	...	
		PS	13 9	...	...	...	
		F	8 48 ...	...	...	...	
May 21	E	i	13 17 33	...	...	...	
		F	14 24 ...	...	...	...	
May 24	E	iP	5 45 1	...	...	5245	Epc: Philippine Islands.
	E	PR_1	46 53	...	...	...	
	N	St	51 54	...	...	...	
	E	iS	52 ...	...	...	...	
	E	SR_2	55 4	...	...	...	
	E	SR_2	56 14	...	...	...	
	E	L	59 23	...	...	...	
	E	Mn	6 7 17	...	...	...	
	E	F	10 18 ...	...	...	...	
May 26	E	P	22 12 19	...	...	5180	
		PR_1	14 9	...	...	...	
		PR_2	14 47	...	...	...	
		S	19 14	...	...	...	
		SR_1	22 21	...	...	...	
		L	26 28	...	...	...	
		F	23 59 ...	...	...	...	
May 27	E	e	3 36 54	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	Δ	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
May 28	E	e	17 31 43	...	...	...	
		F	18 6 ...	...	...	...	
May 29	E	e	19 56 3	...	...	...	
		F	20 39 ...	...	...	...	
May 30	N	eP	21 35 15	...	...	1020	Disastrous Quetta Earthquake.
	E	P	35 11	...	...	...	
	N,E	P*	35 46	...	...	...	
	N	P	36 10	...	...	...	
	N,E	S	37 ...	...	...	...	
	N	S*	37 34	...	...	...	
	N	S	38 10	...	...	...	
	N	Mn	?	...	>1590	...	Motion of the recording pen restricted by stops for about 7 minutes.
	E	F	Masked by the following shock.				
May 30	E	eP	23 36 22	...	...	1020	Apparently aftershock of Quetta Earthquake.
	N	e	38 17	...	...	...	
	E	eS	38 10	...	...	...	
	E	S	39 17	...	...	...	
	E	F	Masked by the following shock.				
May 31	E	P	2 5 51	...	...	1090	
	E	P*	6 20	...	...	...	
	N	eS	7 45	...	...	...	
	E	iS	7 45	...	...	...	
	E	S*	8 28	...	...	...	
	N,E	S	8 59	...	...	...	
	E	Mn	13 20 7		18	...	
	N	F	49 ...	...	...	...	
May 31	E	i	8 26 25	...	...	...	
		F	Masked by the following shock.				
May 31	E	e	9 4 7	...	...	...	
		F	44 ...	...	...	...	
May 31	E	e	13 26 39	...	...	...	
		F	55 ...	...	...	...	
May 31	E	eP	17 14 36	...	...	1050	Apparently aftershock of Quetta Earthquake.
	N	S	16 28	...	...	...	
	E	iS	16 28	...	...	...	
	E	S*	17 2	...	...	...	
	E	S	17 35	...	...	...	
	E	Mn	20 20 7		21	...	
	E	F	56 ...	...	...	...	
June 1	N	eP	4 32 36	...	...	1020	An aftershock of the great Quetta Earthquake.
	E	iP	32 36	...	...	...	
	E	P	33 35	...	...	...	
	N	eS	34 25	...	...	...	
	E	S	34 25	...	...	...	
	E	S*	35 ...	...	...	...	
	N,E	S	35 32	...	...	...	
	E	Mn	38 22 7		29	...	
	N	F	53 ...	...	...	...	
	E	F	5 22 ...	...	...	...	

TABLE D_1—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
June 1	E	e	12 26 27	...	...	...	
		F	37 ...	...	...	...	
	E	i	14 48 35	...	...	...	
		i	50 33	...	...	...	
June 2	E	eP	4 18 46	...	...	995	Apparently an aftershock of the great Quetta earthquake.
	N	eS	20 36	...	...	...	
	E	iS	20 36	...	...	...	
	E	S*	21 11	...	...	...	
	N	F	26 ...	...	...	...	
	E	F	31 ...	...	...	...	
June 2	N	eP	9 18 56	...	...	1020	An aftershock of the great Quetta earthquake.
	E	iP	18 52	...	...	...	
	E	P	19 19	...	...	...	
	E	P	19 52	...	...	...	
	N	S	20 40	...	...	...	
	E	iS	20 40	...	...	...	
	N, E	S*	21 17	...	...	...	
	E	S	21 48	...	...	...	
	N	F	10 13 ...	...	...	...	
	E	F	11 46 ...	...	...	...	
June 9	E	e	6 40 26	...	...	...	
		F	7 51 ...	...	...	...	
June 18	E	e	16 51 2	...	...	...	
		F	17 14 ...	...	...	...	
June 18	E	P	22 36 5	...	...	5205	
		PR_1	37 55	...	...	...	
		iS	42 59	...	...	...	
		iSR_1	46 7	...	...	...	
		SR_2	47 15	...	...	...	
		L?	50 9	...	...	...	
		Mn	59 19	15	9	...	
		F	0 23 ...	...	...	...	
June 22	E	P	15 57 41	...	...	5765	
		iS	16 4 59	...	...	...	
		PS	5 35	...	...	...	
		SR_1	8 31	...	...	...	
		SR_2	10 1	...	...	...	
		L?	13 41	...	...	...	
		Mn	23 16	17	15	...	
		F	17 25 ...	...	...	...	
June 23	E	e	7 21 27	...	...	...	
		F	41 ...	...	...	...	
June 24	E	P	23 36 20	...	...	10745	L-waves poor.
	N, E	ScPcS	46 54	...	...	...	Maximum motion near ScPcS.
	N, E	ScPcPcS	47 36	...	...	...	
	N	PS	49 1	...	...	...	
	E	PS	49 5	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
June 24	E	PPS	49 41	...	...	...	
	E	SR_1	54 31	...	...	...	
	N	F	1 29 ...	...	...	...	
	E	F	2 14 ...	...	...	...	
June 25	E	P	12 43 39	...	...	6300	
	N	eS	51 37	...	...	...	
	E	iS	51 37	...	...	...	
	E	PS	52 4	...	...	...	
	E	Mn	13 7 37	15	14	...	
	N	F	57 ...	...	...	...	
	E	F	14 28 ...	...	...	...	
June 25	E	i	23 56 56	...	...	...	
		F	0 32 ...	...	...	...	
June 27	E	e	3 17 28	...	...	...	
		F	30 ...	...	...	...	
June 29	E	e	7 11 9	...	...	...	
		Mn	8 15 ...	20	28	...	
		F	9 38 ...	...	...	...	
June 29	E	e	9 54 7	...	...	...	
June 30	E	i	8 13 41	...	...	...	
		F	8 43 ...	...	...	...	
June 30	E	e (P*)?	9 47 53	...	...	1030	
		eS	49 18	...	...	...	
		S	50 28	...	...	...	
		F	57 ...	...	...	...	
July 2	E	e	15 38 33	...	...	...	
		F	57 ...	...	...	...	
July 4	E	P	2 51 35	...	...	865	Felt in different parts of north Bengal.
		eS	52 15	...	...	...	
		S*	52 45	...	...	...	
		S	53 20	...	...	...	
		F	3 3 ...	...	...	..	
July 5	N	eP	17 56 18	...	...	1380	
	E	iP	56 18	...	...	...	
	N	S	58 44	...	...	...	
	E	iS	58 44	...	...	...	
	E	SR_1	59 6	...	...	...	
	N, E	S*	59 23	...	...	...	
	N, E	S	18 0 15	...	...	...	
July 7	E	eP	13 30 41	...	...	4290	Epc : Near Luzon in Philippine Islands.
		PR_1	32 ...	..	..	...	
		S	36 46	..	..	...	
		SR_1	39 9	...	...	...	
		SR_2	39 44	...	...	...	
		L	42 8	...	...	...	
		M	45 31	...	...	...	

TABLE D_1—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
July 10	E	i	20 40 46	...	...	...	
		Mn	45 49	12	15	...	
		F	21 11 ...	...	...	...	
July 11	E	i	8 41 20	...	...	...	
		e	44 47	...	...	...	
		Mn	57 58	16	15	...	
July 12	E	P	1 46 2	...	...	2100	
		iS	49 35	...	...	...	
		SR_1	50 29	...	...	...	
		L	51 1	...	...	...	
		Mn	52 59	...	...	...	
		F	2 17 ...	...	...	...	
July 16	E	P	16 26 17	...	...	4235	Near Formosa Island.
	E	PR_2	28 5	...	...	...	
	N	eS	32 17	...	...	...	
	E	S	32 17	...	...	...	
	N	eSR_1	34 43	...	...	...	
	E	SR_1	34 43	...	...	...	
	E	SR_2	35 19	...	...	...	
	E	L	37 43	...	...	...	
	E	M	40 57	...	...	...	
	E	Mn	44 13	10	26	...	
	N	F	17 13 ...	...	...	...	
	E	F	18 6 ...	...	...	...	
July 16	E	e	20 9 49	...	...	...	
		i	17 11	...	...	...	
		F	51 ...	...	...	...	
July 17	E	e	5 2 52	...	...	...	
		F	6 5 ...	...	...	...	
July 17	E	e	11 6 17	..	...	...	
		Mn	?	23	17	...	
		F	13 23 ...	...	...	...	
July 17	E	e	16 20 52	...	...	...	Felt at Quetta.
		Mn	25 8	8	3	...	
		F	34 ...	...	...	...	
July 19	E	P	0 59 8	...	...	5900	
	N	e	59 15	...	...	...	
	E	PR_1	1 1 9	...	...	...	
	N, E	iS	6 43	...	...	...	
	N, E	PS	7 23	...	...	...	
	E	iSR_1	10 16	...	...	...	
	E	iSR_2	11 53	...	...	...	
	E	L	15 32	...	...	...	
	E	Mn	23 58	20	80	...	
	N	F	54 ...	...	...	...	
July 26	E	P	9 14 41	...	...	2335	
		S	18 28	...	...	...	
		SR_1	19 15	...	...	...	
		Mn	23 25	9	5	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
July 26	E	iP	10 36 54	...	...	2335	
		PR_1	37 12	...	...	...	
		iS	40 46	...	...	...	
		SR_2	41 34	...	...	...	
		S*	42 33	...	...	...	
		$\overline{S}$	43 24	...	...	...	
		Mn	45 43	8	25	...	
		F	12 2 ...	...	...	...	
July 27	E	e	12 24 42	...	...	...	
		F	47 ...	...	...	...	
July 28	E	P	5 26 25	...	...	1010	
		$\overline{P}$	27 18	...	...	...	
		S	28 20	...	...	...	
		F	55 ...	...	...	...	
July 29	E	$\overline{P^1}$	7 52 39	...	...	13720	
	E	$\overline{ScPcP}$	55 17	...	...	...	
	E	$\overline{PR_2}$	56 56	...	...	...	
	E	$\overline{ScPcS}$	59 36	...	...	...	
	E	$\overline{ScPcPcS}$	8 1 8	...	...	...	
	E	S	2 16	...	...	...	
	N, E	PS	4 17	...	...	...	
	E	PPS	5 56	...	...	...	
	E	SR_1	10 51	...	...	...	
	E	SR_2	15 42	...	...	...	
	E	L	32 25	...	...	...	
	E	M	41 44	...	...	...	
	E	F	10 55 ...	...	...	...	
July 29	E	P	23 19 41	...	...	1335	
	N	eS	21 57	...	...	...	
	E	S	21 57	...	...	...	
	E	S*	22 45	...	...	...	
	N, E	$\overline{S}$	23 21	...	...	...	
Aug. 1	E	eP	14 15 2	...	...	5270	
		ePR_1	16 50	...	...	...	
		PR_2	17 35	...	...	...	
		S	22 3	...	...	...	
		SR_1	25 22	...	...	...	
		SR_2	26 30	...	...	...	
		Mn	37 35	16	12	...	
		F	15 39 ...	...	...	...	
Aug. 1	E	e	17 3 36	...	...	...	
		F	18 15 ...	...	...	...	
Aug. 3	N, E	P	1 15 56	...	...	3080	Epc: Near north Sumatra.
	N, E	PR_1	16 33	...	...	...	
	N, E	iS	20 45	...	...	...	
	E	SR_1	22 2	...	...	..	
	N	L	23 38	...	...	...	
	E	L?	23 42	...	...	...	
	E	M	25 48	...	...	...	
	N	Mn	26 41	24	398	...	
	E	F	4 59 ...	...	...	...	

TABLE D_1—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Aug. 3	E	P	11 53 58	...	...	5165	
		ePR$_1$	55 43	...	...	...	
		PR$_2$	56 22	...	...	...	
		S	12 0 50	...	...	...	
		SR$_1$	3 53	...	...	...	
		SR$_2$	5 2	...	...	...	
		L	7 57	...	...	...	
		F	57 ...	...	...	...	
Aug. 3	E	eP	13 23 31	...	...	2220	
		iS	27 16	...	...	...	
		Mn	32 16	10	5	...	
		F	56 ...	...	...	...	
Aug. 3	E	e	14 15 16	...	...	...	
		Mn	20 13	9	3	...	
Aug. 17	E	P	1 58 38	...	...	11445	
		iPR$_1$	2 2 43	...	...	...	
		iPR$_2$	5 4	...	...	...	
	N, E	iScPcS	9 11	...	...	...	
	N, E	ScPcPcS	9 57	...	...	...	
	N, E	S	10 29	...	...	...	
	N	ePS	11 48	...	...	...	
	E	PS	11 43	...	...	...	
	N, E	PPS	12 26	...	...	...	
	N, E	SR$_1$	17 20	...	...	...	
	E	SR$_2$	21 39	...	...	...	
	E	L	33 29	...	...	...	
	E	F	5 18 ...	...	...	...	
Aug. 23	N, E	i	0 57 51	...	...	...	Record partially lost during shifting. Very near slight shock. Felt at Delhi and Meerut.
Aug. 23	N, E	P	14 5 13	...	...	4120	
	E	PR$_1$	6 24	...	...	...	
	N, E	PR$_2$	6 45	...	...	...	
	N, E	iS	11 9	...	...	...	
	E	SR	13 9	...	...	...	
	E	L	15 54	...	...	...	
	E	Mn	22 14	19	31	...	
	N	F	15 8 ...	...	...	...	
	E	F	16 5 ...	...	...	...	
Aug. 23	E	$\bar{P}$	18 37 19	...	...	845	Felt at Muzaffarpur.
	N, E	S	38 ...	...	...	...	
	E	eS*	38 23	...	...	...	
	N, E	$\bar{S}$	38 53	...	...	...	
	N	F	41 ...	...	...	...	
	E	F	44 ...	...	...	...	
Aug. 23	E	i	23 31 37	...	...	...	Felt at Delhi and Meerut.
Aug. 25	E	eP	5 19 22	...	...	5155	
		eS	26 15	...	...	...	
		eSR$_1$	29 22	...	...	...	
		F	6 44 ...	...	...	...	

Date.	Compt.	Phase.	G .M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Aug. 31	E	i	17 49 57	...	...	...	
		i	58 13	...	...	...	
		Mn	18 21 37	16	7	...	
Sep. 3	E	e	11 20 23	...	...	...	Tremors.
		F	40 ...	...	...	...	
Sep. 4	E	iP	1 45 13	...	...	4220	Epc: Near Formosa Island.
		PR$_1$	46 38	...	...	...	
		PR$_2$	46 56	...	...	...	
		S	51 14	...	...	...	
		SR$_1$	53 33	...	...	...	
		L	56 38	...	...	...	
		F	5 3 ...	...	...	...	
Sep. 5	E	e	12 38 49	...	...	...	Reported to have been felt in North Bengal.
	N, E	$\bar{S}$?	41 6	...	...	...	
Sep. 9	E	P	6 28 1	...	...	6890	
	E	PR$_1$	30 21	...	...	...	
	E	PR$_2$	31 28	...	...	...	
	N, E	iS	36 33	...	...	...	
	E	PS	37 3	...	...	...	
	N, E	SR$_1$	40 41	...	...	...	
	N	iSR$_2$ (?)	43 43	...	...	...	
	E	SR$_2$	42 52	...	...	...	
	E	L	47 17	...	...	...	
	N	F	7 42 ...	...	...	...	
	E	F	10 8 ...	...	...	...	
Sep. 11	E	e	12 10 55	...	...	...	Tremors.
Sep. 11	N	P	14 13 44	...	...	6120	
	E	iP	13 44	...	...	...	
	E	PR$_2$	16 49	...	...	...	
	N	iS	21 31	...	...	...	
	E	S	21 31	...	...	...	
	N	PS	22 5	...	...	...	
	E	SR$_1$	25 22	...	...	...	
	E	SR$_2$	27 7	...	...	...	
	N	eL	30 53	...	...	...	
	E	L	31 3	...	...	...	
	E	Mn	...	17	...	...	
	N	F	15 48 ...	...	...	...	
	E	F	18 12 ...	...	...	...	
Sep. 15	E	P	11 27 15	...	...	8780	
		S	37 17	...	...	...	
		PS	37 55	...	...	...	
		SR$_1$	42 35	...	...	...	
Sep. 15	E	P'$_1$	14 29 18	...	...	18900	
		P'$_2$	30 28	...	...	...	
		PR$_2$	34 18	...	...	...	
		SR$_1$	56 16	...	...	..	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Sep. 18	E	P	8 33 13	...	...	5880	
		S	40 47	...	...	...	
		PS	41 22	...	...	...	
		SR_1	44 25	...	...	...	
		SR_2	45 55	...	...	...	
		L?	49 35	...	...	...	
		M	53 53	...	...	...	
Sep. 19	E	P	2 38 16	...	...	8720	
		e (S?)	48 15	...	...	...	
		i (PS?)	48 49	...	...	...	
		i (SR_1?)	53 33	...	...	...	
Sep. 20	E	iP	1 57 39	...	...	7660	
		PR_1	2 0 17	...	...	...	
		S	6 47	...	...	...	
		PS	7 20	...	...	...	
		SR_1	11 25	...	...	...	
		F	Masked by the following shock.				
Sep. 20	E	P	5 34 17	...	...	7680	
		PR_1	36 56	...	...	...	
		PR_2	38 20	...	...	...	
		iS	43 27	...	...	...	
		PS	43 57	...	...	...	
		SR_1	48 8	...		...	
		SR_2	50 43	...	...	...	
		L	56 22	...	...	...	
		M	6 1 59	...	...	...	
		F	Lost while changing chart.				
Sep. 20	E	P	21 15 14	...	...	7835	
		S	24 32	...	...	...	
		PS	25 3	...	...	...	
		F	22 48 ...	...	...	...	
Sep. 23	E	iP	9 29 23	...	...	7680	
		PR_1	32 1	...	...	...	
		PR_2	33 31	...	...	...	
		iS	38 33	...	...	...	
		PS	39 5	...	...	...	
		SR_1	43 5	...	...	...	
		SR_2	45 52	...	...	...	
		L	51 31	...	...	...	
		M	56 36	...	...	...	
		F	13 0 ...	...	...	...	
Sep. 24	E	P	5 12 7	...	...	7500	
		PR_1	14 35	...	...	...	
		S	21 9	...	...	...	
		PS	21 43	...	...	...	
Sep. 25	E	iP	10 30 47	..	...	7620	
		PR_1	33 12	...	...	...	
		iS	39 54	...	...	...	
		F	12 4 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Sep. 28	E	e	8 22 3	...	...	...	
		i	24 11	...	...	...	
		F	44 ...	...	...	...	
Sep. 29	E	e	4 15 27	...	...	...	Tremors.
		F	27 ...	...	...	...	
Sep. 29	E	e	6 39 1	...	...	...	
		e	41 21	...	...	...	
		i	43 8	...	...	...	
		F	7 13 ...	...	...	...	
Sep. 30	E	e	19 19 31	...	...	...	
		eL	33 53	...	...	...	
		Mn	37 49	...	...	...	
		F	20 0 ...	...	...	...	
Sep. 30	E	P	23 57 21	...	...	5210	
		eS	0 4 23	...	...	...	
		SR_1	7 27	...	...	...	
		SR_2	8 39	...	...	...	
		L	11 37	...	...	...	
		F	Lost while changing chart.				
Oct. 1	E	e	6 15 29	...	...	...	Tremors.
		F	44 ...	...	...	...	
Oct. 2	E	iP	5 42 35	...	...	6265	
		PR_1	44 46	...	...	...	
		PR_2	45 45	...	...	...	
		S	50 29	...	...	...	
		PS	50 56	...	...	...	
		SR_1	54 22	...	...	...	
		SR_2	56 3	...	...	...	
Oct. 4	E	iP	5 23 41	...	...	5000 (?)	L-waves poor.
		ePR_1	25 19	...	...	...	
		S	30 19	...	...	...	
		SR_1 (?)	33 21	...	...	...	
		F	6 24 ...	...	...	...	
Oct. 4	E	eP	14 53 9	...	...	1190	
	N	e	55 8	...	...	...	
	E	eS	55 21	...	...	...	
	E	$\overline{S}$	56 33	...	...	...	
	E	F	15 42 ...	...	...	...	
Oct. 6	E	i	5 0 45	...	...	...	
		P	6 10 ...	...	...	...	
Oct. 6	E	e	14 48 30	...	...	...	
		Mn	53 39	11	8	...	
		F	15 22 ...	...	...	...	
Oct. 7	E	e	6 14 31	...	...	...	Tremors.
		F	42 ...	...	...	...	

TABLE D_1—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Oct. 8	N, E	P	9 22 9	...	...	1280	
	N	S	24 26	...	...	...	
	E	S	24 19	...	...	...	
	E	$\overline{S}$	25 41	...	...	...	
	N	F	57 ...	...	...	...	
	E	F	10 52 ...	...	...	...	
Oct. 9	E	i	22 29 15	...	...	...	
		F	23 26 ...	...	...	...	
Oct. 10	E	e	20 18 37	...	...	...	Tremors.
		F	21 4 ...	...	...	...	
Oct. 11	E	P	4 22 50	...	...	1045	L-waves poor. Deep-focus (△ from Brunnet chart) Felt at Peshawar.
		S	24 43	...	...	...	
		F	52 ...	...	...	...	
Oct. 11	E	P	22 27 13	...	...	7765	
		iS	36 27	...	...	...	
		PS	36 52	...	...	...	
		SR_1	41 9	...	...	...	
		L	49 35	...	...	...	
		F	Lost while changing chart.				
Oct. 12	N, E	eP	16 54 50	...	...	6230	Epc : Japan.
	N, E	S	17 2 31	...	...	...	
	E	SR_1	6 30	...	...	...	
	E	SR_2	8 19	...	...	...	
	E	L	12 13	...	...	...	
	N	Mn	21 17 16	34	...		
	E	Mn	25 20 13	30	...		
	N	F	19 3 ...	...	...	...	
	E	F	20 19 ...	...	...	...	
Oct. 13	E	P	2 7 1	...	...	6080	
		PR_2	9 7	...	...	...	
		S	14 49	...	...	...	
		SR_1	18 27	...	...	...	
		SR_2	20 17	...	...	...	
		Mn	33 37	15	9	...	
Oct. 13	E	e	10 27 27		...	...	
		F	11 9 ...	...	...	...	
Oct. 13	E	e	19 46 37	...	...	...	Tremors.
		F	20 7 ...	...	...	...	
Oct. 14	E	e	20 26 20	...	...	...	
		i	27 19	...	...	...	
		F	51 ...	...	...	...	
Oct. 15	E	e	17 12 8	...	...	...	Tremors.
		F	30 ...	...	...	...	
Oct. 15	E	e	21 8 57	...	...	...	Tremors.
		F	34 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Oct. 17	E	e	14 39 51	...	...	2300	
	N	e	43 57	...	...	...	
	E	eS	43 40	...	...	...	
	E	SR_1	44 17	...	...	...	
	E	L	45 17	...	...	...	
	E	M	47 5	...	...	...	
	N	F	15 17 ...	...	...	...	
	E	F	16 1 ...	...	...	...	
Oct. 18	N, E	P	0 21 27	...	...	6265	Epc : Japan
	E	PR_1	23 33	...	...	...	
	E	PR_2	24 36	...	...	...	
	N, E	-	29 21	...	...	...	
	N, E	SR_1	33 11	...	...	...	
	E	SR_2	35 2	...	...	...	
	N	L	39 1	...	...	...	
	E	L	38 47	...	...	...	
	N	F	Lost while changing chart.				
	E	F	4 2 ...	...	...	...	
Oct. 18	E	e	6 21 38	...	...	...	Tremors
		F	7 1 ...	...	...	...	
Oct. 18	E	iP	11 15 32	...	...	6720	
		PR_2	18 55	...	...	...	
		iS	23 52	...	...	...	
		SR_1	27 58	...	...	...	
		L	34 27	...	...	...	
		M	39 18	...	...	...	
		F	14 21 ...	...	...	...	
Oct. 18	E	iP	15 3 24	...	...	6000	
		PR_1	5 30	...	...	...	
		S	10 57	...	...	...	
		PS	11 26	...	...	...	
		SR_1	14 47	...	...	...	
		SR_2	16 16	...	...	...	
		M	24 11	...	...	...	
		Mn	33 55	13	22	...	
Oct. 18	E	P	22 0 56	...	...	6210	
		S	8 45	...	...	...	
		SR_1	12 28	...	...	...	
		Mn	27 38	14	7	...	
Oct. 19	E	eP	2 48 29	...	...	...	
		eS (?)	56 11	...	...	...	
		SR_1 (?)	59 59	...	...	...	
Oct. 19	E	e	5 20 27	...	...	...	
		F	6 27 ...	...	...	...	
Oct. 19	E	i	20 28 33	...	...	...	Felt at Shillong and Jorhat in Assam.
		F	45 ...	...	...	...	
Oct. 20	E	iP	4 55 40	...	...	2200	
		S	59 12	...	...	...	

TABLE D_1—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ.	Km.	
Oct. 20	E	F	6 17 ...	...	...	...	
Oct. 24	E	i	0 30 37	...	...	...	
		Mn	31 15	...	...	...	
Oct. 25	E	e	17 55 7	...	...	...	
		F	18 49 ...	...	...	...	
Oct. 26	E	e	21 20 33	...	...	1220	
	N, E	S	22 13	...	...	...	
	N, E	$\bar{S}$	23 29	...	...	...	
	E	F	22 4 ...	...	...	...	
Oct. 27	E	eP	6 47 45	...	...	...	
		S (?)	51 27	...	...	...	
		Mn	57 33	13	5	...	
Oct. 27	E	e	13 45 37	...	...	...	Tremors.
Oct. 28	E	eP	12 10 3	...	...	1220	
		S	11 37	...	...	...	
		$\bar{S}$	12 55	...	...	...	
		F	51 ...	...	...	...	
Oct. 30	E	eP	2 33 59	...	...	1245	
		eS	36 7	...	...	...	
		$\bar{S}$	37 34	...	...	...	
		Mn	40 5	7	9	...	
Nov. 1	E	e	6 28 3	...	...	...	
		F	8 38 ...	...	...	...	
Nov. 1	E	eP	16 27 15	...	...	2700	
	N, E	i	27 20	...	...	...	
	N, E	iS	31 29	...	...	...	
	E	SR_1	32 37	...	...	...	
	N, E	L	33 51	...	...	...	
	N	Mn	36 53	16	302	...	
	E	Mn	38 37	12	113	...	
	N	F	17 40 ...	...	...	...	
Nov. 1	E	e	21 3 50	...	...	...	
		Mn	10 53	11	4	...	
Nov. 3	N	e	16 41 42	...	...	...	
		i	42 14	...	...	...	
Nov. 5	E	e	9 41 21	...	...	...	
		e	51 21	...	...	...	
		F	11 3 ...	...	...	...	
Nov 5	E	P	21 6 20	...	...	5390	
		PR_2	8 59	...	...	...	
		iS	13 33	...	...	...	
		PS	14 9	...	...	...	
		SR_2	18 8	...	...	...	
		F	22 20	...	...	...	
Nov. 11		e	13 24 1	...	...	...	
		F	14 48 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ.	Km.	
Nov. 12	E	i	21 39 14	...	...	...	
		Mn	47 19	20	...	...	
Nov. 13	E	i	3 41 40	...	...	...	Tremors. Probably the one felt at Kalat near Quetta.
Nov. 14	E	P	20 8 40	...	...	8610	
		PR_1	11 35	...	...	...	
		S	18 25	...	...	...	
		PS	19 0	...	...	...	
		SR_1 (?)	23 56	...	...	...	
Nov. 16	E	P	5 58 43	...	...	5100	
		PR_2	6 1 3	...	...	...	
		S	5 33	...	...	...	
		SR_1	8 28	...	...	...	
		SR_2 (?)	9 38	...	...	...	
Nov. 17	E	e	7 59 37	...	...	...	
		F	9 18 ...	...	...	...	
Nov. 22	E	e	0 22 41	...	...	...	Probably felt at Mettur in Madras.
		F	28 ...	...	...	...	
Nov. 22	E		11 57 42	...	...	...	
		i	58 17	...	...	...	
		F	12 18 ...	...	...	...	
Nov. 23	E	e	8 54 5	...	...	...	
		F	Masked by the following shock.				
Nov. 23	E	e	9 54 6	...	...	...	
		i	54 24	...	...	...	
Nov. 24	E	e	16 22 57	...	...	...	Tremors.
		F	35 ...	...	...	...	
Nov. 25	N, E	P	10 8 34	...	...	2955	iP in E—componen.
	N, E	S	13 7	...	...	...	Epc : Possibly in the vicinity of Sumatra.
	E	SR_2	14 23	...	...	...	
	E	L	16 1	...	...	...	
	E	M	18 17	...	...	...	
	E	Mn	20 3	18	80	...	
Nov. 26	E	e	0 42 28	...	...	...	
		F	Lost while changing chart.				
Nov. 26	N, E	P	18 38 52	...	...	2980	
	N, E	S	43 31	...	...	...	
	E	SR_2	44 42	...	...	...	
	E	L	46 15	...	...	...	
	E	M	48 33	...	...	...	
	E	Mn	50 31	...	...	...	
	N	F	19 56 ...	...	...	...	
Nov. 29	E	e	18 32 15	...	...	...	
Nov. 29	E		19 36 9	...	...	...	
		e	39 15	...	...	...	

TABLE D_1—*contd.*

Date.	Compt.	*Phase.*	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Nov. 30	E	e	3 39 9	...	...	...	
		i	56 59	...	...	...	
		F	6 32 ...	...	...	...	
Nov. 30	E	e	16 35 39	...	...	...	Felt at Dhubri, Gauhati, Cooch Behar and Jalpaiguri.
		i	36 57	...	...	...	
		F	53 ...	...	...	...	
Dec. 1	E	eP	23 53 9	...	...	4730	
		S	59 39	...	...	...	
		Mn	0 13 55	11	18	...	
		F	Lost while changing chart.				
Dec. 2	E	e	16 50 50	...	...	...	
		e (S?)	57 13	...	...	...	
		Mn	17 11 38	13	13	...	
Dec. 5	E	eP	18 9 3	...	...	9555	
		ScPcS	19 3	...	...	...	
		iSR_1	25 3	...	...	...	
		F	20 29 ...	...	...	...	
Dec. 7	E	e	4 42 25	...	...	...	
		e	43 18	...	...	...	
		F	5 7 ...	...	...	...	
Dec. 8	E	i	17 35 19	...	...	...	
		F	18 32 ...	...	...	...	
Dec. 9	E	e	7 48 46	...	...	...	
Dec. 9	E	e	16 2 52	...	...	...	
		F	19 ...	...	...	...	
Dec. 11	E	e	9 0 40	...	...	...	
		Mn	12 5	12	5	...	
		F	45 ...	...	...	...	
Dec. 11	E	e	12 19 25	...	...	...	
		F	36 ...	...	...	...	
Dec. 14	E	iP	1 49 43	...	...	...	
		ePR_1	52 11	...	...	...	
		S?	59 1	...	...	...	
		SR_2?	2 6 17	...	...	...	
Dec. 14	E	eP^1	22 24 43	...	...	15400	Epc: 14° N, 94° W (U. S. C. G. S.)
		PR_1	27 27	...	...	...	
	N,E	ScPcP	28 19	...	...	...	
	E	SR_1	45 32	...	...	...	
	N	Mn	23 29 18	22	65	...	
	E	F	Lost while changing chart.				
Dec. 15	E	P	7 20 37	...	...	10100	Epc: 12° S, 161° E. (U. S. C. G. S.)
	N	e	21 15	...	...	...	
	E	PR_1	24 13	...	...	...	Felt in Solomon Islands.
	E	PR_2	26 13	...	...	...	
	E	ScPcS	30 57	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Dec. 15	N	i	31 29	...	...	...	
	E	PPS	33 27	...	...	...	
	E	SR_1	37 39	...	...	...	
	E	SR_2	41 35	...	...	...	
	E	L?	47 49	...	...	...	
	N	Mn	50 23	31	1016	...	
Dec. 17	E	e	18 40 2	...	...	...	
Dec. 17	E	iP	19 25 31	...	...	4680	Epc: East of Formosa.
	E	PR_1	27 3	...	...	...	
	N, E	i	27 23	...	...	...	
	N, E	iS	31 59	...	...	...	
	N	iSR_2	35 25	...	...	...	
	E	SR_2?	35 31	...	...	...	
	N	Mn	42 25	24	332	...	
Dec. 18	E	eP	7 15 32	...	...	2510	
	N, E	i	15 40	...	...	...	
	E	PR_1	15 57	...	...	...	
	N, E	S	19 39	...	...	...	
	E	SR_1	20 46	...	...	...	
	E	L	21 48	...	...	...	
	E	F	Masked by the following shock.				
Dec. 18	E	P	8 9 28	...	...	2510	
		ePR_1	9 57	...	...	...	
		iS	13 34	...	...	...	
		SR_1	14 36	...	...	...	
		Mn	19 16	12	8	...	
Dec. 18	E	e	13 24 2	...	...	...	
Dec. 18	E	P	17 4 29	...	...	2510	
	E	PR_1	4 57	...	...	...	
	N, E	S	8 37	...	...	...	
	E	SR_1	9 37	...	...	...	
	E	Mn	14 18	...	...	...	
	N	F	38 ...	...	...	...	
	E	F	18 14 ...	...	...	...	
Dec. 19	E	e	9 48 1	...	...	...	
		Mn	57 47	12	5	...	
Dec. 19	E	e	13 31 47	...	...	...	
		i	35 51	...	...	...	
		Mn	41 28	...	...	...	
Dec. 19	E	e	21 32 2	...	...	...	
		i	33 9	...	...	...	
Dec. 19	E	eP	23 13 14	...	...	1005	Felt at Quetta.
		iS	15 10	...	...	...	
		F	33 ...	...	...	...	
Dec. 20	E	e	0 26 39	...	...	...	
		F	41 ...	...	...	...	
Dec. 20	E	e	18 49 47	...	...	...	
		i	19 0 5	...	...	...	
Dec. 22	E	e	21 39 31	...	...	...	
Dec. 23	E	e	14 53 35	...	...	...	
		Mn	15 22 40	20	14	...	

TABLE D_1—*concld.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.		1935.			H. M. S.	Sec.	μ	Km.	
De . 24	E	e	12 43 45	...	...	...	Distant shock.	Dec. 29	E	i	3 54 41	...	...	...	
Dec. 28	E	iP	2 41 59	...	...	3620	Great.	Dec. 29	E	e	13 5 15	...	...	...	
		iS	47 23	...	...	...	Epc: North Sumatra.			F	13 ...	...	...	...	
		SR_1	48 59	...	...	...									
Dec. 28	E	e	17 34 8	...	...	...		Dec. 29	E	iP	23 47 9	...	...	6335	
		i	36 48	...	...	...				PR_1	49 19	...	...	...	
Dec. 28	E	e	19 8 59	...	...	...				iS	55 8	...	...	...	
		F	36 ...	...	...	...				PS	55 44	...	...	...	
										SR_1	58 52	...	...	...	
Dec. 29	E	eP	3 35 26	...	...	6355				SR_2	0 1 4	...	...	...	
		ePR_2	38 41	...	...	...				F	Lost while changing chart.				
		S	43 27	...	...	...									
		PS	43 58	...	...	...									
		SR_1	47 11	...	...	...		Dec. 30	E	e	4 22 39	...	...	...	
	Large waves masked by the following shock.									i	25 34	...	...	...	
										F	5 17 ...	...	...	...	

G. CHATTERJEE,

Meteorologist-in-charge, Upper Air Observatory, Agra.

STATION—COLABA OBSERVATORY, BOMBAY.

Lat. 18° 54′ N *Long.* 72° 49′ E. *Height above M. S. L.* 6 metres.

Lithologic foundation : Trap Rock.

Instruments :—Milne-Shaw seismographs, North-South (N) and East-West (E) components, installed in the underground constant temperature room. Photographic registration.

INSTRUMENTAL CONSTANTS*.

Component.	Steady mass (Kg.)	T. (sec.).	Vm	ε	Paper speed (mm./min.).
N	0·45	12	250	20 : 1	8
E	0·45	12	350	22 : 1	8

TABLE D_2.

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
Jan. 1	E	eP¹ (?)	13 38 46	...	...	13110	Slight. Beginning uncertain.
	E	i	40 17	...	...	...	
	N	e					
	N,E	ScPcS	45 32	...	...	...	Surface waves poorly developed.
	N,E	ScPcPcS	46 50	...	...	...	Deep focus.
	N,E	S	47 47	...	...	...	Epc: 14°8 S., 175° W. (J. S. A.). Friendly Islands.
	N,E	PS	49 35	...	...	...	
	N,E	SR_1	55 53	...	...	...	
	N,E	SR_2	14 0 20	...	...	...	
	N,E	F	15 46 ...	...	...	...	
	E	F	42 ...	...	...	...	
Jan. 2	N,E	eP	22 27 33	...	...	1845	Slight. Probably aftershock of the Great Tibetan shock of Dec. 15, 1934.
	N,E	eS	30 45	...	...	...	
	N	Mn	35 17	7	4	...	
	E	Mn	35 41	7	3	...	
	N	F	23 1 ...	...	...	...	
	E	F	5 ...	...	...	...	
Jan. 3	N,E	iP	1 54 23	...	...	1880	Great. Epc: 30° N., 87° E., Tibet. O = 1h. 50m. 26s.
	N,E	PR_1	54 38	...	...	...	
	N,E	P*	55 15	...	...	...	
	N,E	P	56 4	...	...	...	
	N,E	iS	57 38	...	...	...	
	N,E	iSR_1	58 8	...	...	...	
	N,E	S*	58 45	...	...	...	
	N,E	S	59 45	...	...	...	
	N	Mn	2 2 30	...	258	...	Period uncertain.
	1	Mn	1 30	8	270	...	
	N,E	F	4 5 ...	...	...	...	
Jan. 3	N,E	e	6 33 ...	...	...	...	Tremors.
	N.E	f	49 ...	...	...	...	
Jan. 3	N,E	eP	6 53 2	...	...	1810	Beginning near minute break.
	N,E	eS	56 11	...	...	...	Slight. Aftershock of the Great Tibetan earthquake.
	N,E	SR_1	56 38	...	...	...	
	N	L	57 22	...	...	...	
1935.							
	E	L	57 26	...	...	...	
	N	Mn	58 40	7	2	...	
	E	Mn	7 0 3	7	1	...	
	N,E	F	7 18 ...	...	...	...	
Jan. 3	N,E	e	14 36 ...	...	...	...	Tremors. Probably aftershock of the Great Tibetan earthquake.
	N,E	f	56 ...	...	...	...	
Jan. 3	N	e	17 10 ...	...	...	...	Do.
	E	e	9 ...	...	...	...	
	N,E	f	27 ...	...	...	...	
Jan. 3	N,E	e	18 26 ...	...	...	...	Do.
	N	f	40 ...	...	...	...	
	E	f	38 ...	...	...	...	
Jan. 4	N,E	eP	8 5 2	...	...	1810	Slight. Aftershock of the Tibetan earthquake of Jan. 3.
	N,E	eS	8 11	...	...	...	
	N	Mn	10 44	7	2	...	
	E	Mn	14 23	8	2	...	
	N	F	29 ...	...	...	...	
	E	F	28 ...	...	...	...	
Jan. 4	N	e	10 26 45	...	...	...	Feeble, near.
	E	i	30 36	...	...	...	
	E	F	58 ...	...	...	...	
	N	F	11 4 ...	...	...	...	
Jan. 4	N,E	iP	14 49 39	...	...	4845	Moderate.
	N,E	eS	56 15	...	...	...	Epc: 41° N, 29° E., Turkey. Destructive in Marmora Islands.
	N,E	SR_1	59 5	...	...	...	
	N,E	eL	15 3 ...	...	...	...	
	N	Mn	16 8 35	25	30	...	
	E	Mn	16 9 26	16	11	...	
	N	F	17 27 ...	...	...	...	
	E	F	17 25 ...	...	...	...	
Jan. 4	N,E	iP	16 28 14	...	..	4845	Slight. Aftershoc k of Marmora Earthquake.
	N,E	iS	34 49	...	...	...	

* Erratum :—Omit the Column "ε" from the Tables of Constants of Milne-Shaw Seismograph printed at the top of the Bombay Seismic Data for the years 1923 to 1931,

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
	N,E	L	41 42	...	...	...	
	N	Mn	47 32	23	15	..	
	E	Mn	48 9	15	6	..	
	N,E	F	Mixed up with the following shock.				
Jan. 4	N,E	e	Mixed up with the preceding shock.				Feeble.
	N,E	F	18 10 ...	...	...	...	
Jan. 4	N,E	e	10 9 ...	...	...	...	Tremors.
	N,E	f	22 ...	...	...	...	
Jan. 4	N,E	M	20 2 ...	...	...	...	Feeble seismic activity about the time.
Jan. 4	N,E	e	23 45 ..	...	...	...	Tremors.
	N,E	f	0 11 ...	...	...	...	
Jan. 5	N,E	e	10 14 35	...	...	...	Feeble shock. Probably aftershock of moderate quake of 4-1-35.
	E	i	16 8	...	...	...	
	N	e	16 18	...	...	...	
	N,E	i	20 45	...	...	...	
	N	F	11 11 ...	...	...	...	
	E	F	0 ...	...	...	...	
Jan. 5	E	Mn	16 32 56	...	...	...	Seismic activity.
Jan. 6	N,E	iP	7 14 32	...	...	1810	Slight. Aftershock of the great Tibetan Earthquake of 3-1-35.
	N,E	S	17 41	...	...	...	
	N	SR_1	18 6	...	...	...	
	N,E	L	19 ...	...	...	...	
	N	Mn	21 51	7	4	...	
	E	Mn	22 2	9	5	...	
	N	F	45 ...	...	...	...	
	E	F	47 ...	...	...	...	
Jan. 6	N	Mn	11 29 48	...	...	...	Seismic activity.
	E	Mn	33 12	...	...	...	
Jan. 6	N	Mn	18 6 0	...	...	...	Seismic activity.
	E	Mn	7 0	...	...	...	
Jan. 7	N,E	Mn	2 58 30	...	...	...	Feeble. Felt at Dhubri and Gauhati, Assam.
Jan. 9	N,E	Mn	4 21 23	...	...	...	Feeble.
Jan. 10	N	Mn	11 33 25	9	3	...	Feeble.
	E	Mn	34 17	8	2	...	
Jan. 11	E	Mn	0 40 28	...	...	...	Seismic activity.
Jan. 11	N,E	Mn	21 25 9	...	...	...	Seismic activity.
Jan. 13	N	Mn	20 14 36	...	...	...	Seismic activity. E cannot be tabulated owing to overlapping lines.
Jan. 16	N	Mn	4 52 40	...	...	...	Seismic activity.
	E	Mn	52 27	...	...	...	
Jan. 16	E	e	6 22 45	...	...	...	Feeble.
Jan. 17	E	i	2 32 42	...	...	...	Slight.
	E	i	33 20	...	...	...	P lost in shifting.
	N	Mn	3 1 30	32	13	...	
	E	Mn	0 37	37	16	...	
	N,E	F	Mixed up with microseisms.				
Jan. 18	E	i	2 12 30	...	...	...	Slight.
	N,E	F	Masked by microseisms.				
Jan. 18	N	e	17 22 39	...	...	...	Feeble, distant.
	E	i	22 34	...	...	...	
	E	i	29 42	...	...	...	
	N	Mn	43 42	...	...	...	
	N,E	F	18 14 ...	...	...	...	
Jan. 19	N,E	e	12 55 ...	...	...	...	Tremors.
	N,E	f	14 19 ...	...	...	...	
Jan. 22	N,E	e	15 7 42	...	...	...	Feeble. Distant.
	N	e	16 42	...	...	...	
	E	F	16 3 ...	...	...	...	
	N	F	20 ...	..	...	...	
Jan. 22	N	M	23 48 29	...	...	...	Feeble. Near.
Jan. 23	N,E	iP	7 37 7	...	...	10155	Great. Epc: 52° N, 170° W (U. S. C. G. S.) Aleutian Islands.
	N,E	PR_1	40 42	...	...	...	
	N	ScPcS	47 30	...	...	...	
	N	PS	49 11	...	...	...	
	N,E	SR_1	54 20	...	...	...	
	N,E	SR_2	58 16	...	...	...	
	N	eL	8 5 0	...	...	...	
	E	eL	8 4 43	...	...	...	
	N	Mn	22 8	20	66	...	
	E	Mn	22 23	17	35	...	
	N	F	11 40 ...	...	...	...	
	E	F	11 20 ...	...	...	...	
Jan. 25	N	Mn	15 10 27	...	...	...	Seismic activity.
Jan. 27	N,E	e	23 17 0	...	...	...	Feeble. Near.
	N,E	F	27 ...	...	...	...	
Jan. 30	N	e	30 0 57	...	...	...	Feeble. Near.
	N	F	1 10	...	...	...	
	E		Phases masked by microseisms.				
Jan. 31	N,E	e	12 9 ...	...	...	...	Feeble. Near
	N	f	25 ...	...	...	...	
	E	f	22 ...	...	...	...	
Jan. 31	N	e	18 10 0	...	...	...	Slight. Distant.
	E	i	10 0	...	...	...	
	N	Mn	19 1 15	...	...	...	
	N	F	19 45 ...	...	...	...	
	E	F	Masked by microseisms.				
Feb. 2	N.E.	e	15 28 0	...	...	...	Feeble. Near.

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
	N	F	47 ...	...	...	...	
	E	F	51 ...	...	...	...	
Feb. 3	E	iP	2 14 33	...	...	1855	Slight.
	E	iS	17 40	...	...	...	Epc: 35°N, 73°E, Kohistan (N. W. Frontier Province)
	E	L	19 0	...	...	...	Felt fairly strongly at Uras, Srinagar, Dresh, Churat and Peshawar.
	N	F	3 24 ...	...	...	...	
	E	T	18 ...	...	...	...	
Feb. 3	N,E	iP	16 35 42	...	...	2110	Slight.
	N,E	iS	39 16	...	...	...	
	N	Mn	43 7	11	4	...	
	E	Mn	42 58	8	3	...	
	N,E	F	17 45 ...	...	...	...	
Feb. 4	N,E	e	7 55 50	...	...	...	Feeble.
	N,E	e	8 2 10	...	...	...	
	N	Mn	14 15	...	...	...	
	E	Mn	14 37	...	...	...	
	N,E	F	38 ...	...	...	...	
Feb. 4	N	Mn	18 39 30	...	...	...	Seismic activity.
Feb. 4	N	e	21 25 ...	...	...	...	Tremors.
	N	f	47 ...	...	...	...	
Feb. 7	E	P	17 37 46	...	...	5280	Slight.
	N,E	iS	44 46	...	...	...	Epc: Luzan District Philippine Islands.
	N,E	SR_1	47 39	...	...	...	Manila △ = 220 kms.
	N	F	18 33 ...	...	...	...	
	E	F	18 16 ...	...	...	...	
Feb. 9	E	eP	19 28 3	...	...	4955	Slight.
	E	PR_1	29 49	...	...	...	Epc: 24°·2 N., 121° ·6 E., (Tailok u), Formosa Island.
	N,E	iS	34 45	...	...	...	
	N	Mn	46 52	15	12	...	
	E	F	20 17 ...	...	...	...	
	N	F	20 33 ...	...	...	...	
Feb. 10	N	Mn	20 33 40	...	...	...	Seismic activity.
Feb. 19	N, E	e	3 26 ...	...	...	...	Tremors.
	N	f	35 ...	...	...	...	
	E	f	36 ...	...	...	...	
Feb. 19	N	e	20 20 36	...	...	...	Feeble. Distant.
	N	e	29 12	...	...	...	
	N	Mn	49 34	...	...	...	
	N	F	21 12 ...	...	...	...	
Feb. 21	N, E	e	18 50 39	...	...	...	Slight. Distant.
	N, E	Mn	59 15	...	...	...	
	N	F	19 18 ...	...	...	...	
	E	F	23 ...	...	...	...	
Feb. 22	N, E	e	9 14 0	...	...	...	Slight. Distant.
	N	Mn	23 24	13	3	...	
1935.							
	E	Mn	24 31	11	2	...	
	N	F	47 ...	...	...	...	
	E	F	52 ...	...	...	...	
Feb. 22	N,E	eP	17 18 18	...	...	9235	Great. Epc: 52° N. 175° E. (U. S. C. G. S.) Aleutian Islands.
	N,E	S	28 39	...	...	...	
	N	eL	47 ...	...	...	...	
	N	Mn	53 38	17	130	...	
	N	F	20 58 ...	...	...	...	
Feb. 23	E	e	3 53 ...	...	...	...	Tremors.
	E	f	4 59 ...	...	...	...	N-Movements very feeble.
Feb. 23	N	Mn	21 20 23	...	...	...	Seismic activity E congestion of lines.
Feb. 24	E	e	12 2 ...	...	...	...	Tremors.
	N	e	4 ...	...	...	...	
	N,E	f	31 ...	...	...	...	
Feb. 25	N,E	iP	2 59 40	...	...	4800	Moderate.
	N,E	iS	3 6 18	...	...	...	Epc: 35°·5 N., 24° E. (Strasbourg).
	N	F	4 17 ...	...	...	...	Destructive in Crete.
	E	F	4 34 ...	...	...	...	
Feb. 27	N,E	e	9 18 47	...	...	...	Slight. Distant.
	E	Mn	40 29	23	5	...	
	E	f	10 14 ...	...	...	...	
	N	f	10 27 ...	...	...	...	
Mar. 3	N,E	eP	22 50 24	...	...	2020	Slight.
	N,E	eS	53 51	...	...	...	Epc.: 36°N., 81° E., Tibet.
	N,E	L	55 15	...	...	...	
	N	Mn	59 20	8	3	...	
	E	Mn	57 51	7	3	...	
	N	F	23 27 ...	...	...	...	
	E	F	23 14 ...	...	...	...	
Mar. 4	N,E	eP	16 19 27	...	...	1920	Slight.
	N,E	eS	22 46	...	...	...	Epc.: Tibet, near previous shock.
	N,E	SR_1 (?)	23 26	...	...	...	
	N,E	eL (?)	24 14	...	...	...	
	N	Mn	26 46	8	5	...	
	E	Mn	27 1	8	4	...	
	N	F	51 ...	...	...	...	
	E	F	49 ...	...	...	...	
Mar. 5	N,E	e	3 39 ...	...	...	...	Tremors.
	N	f	46 ...	...	...	...	
	E	f	49 ...	...	...	...	
Mar. 5	N,E	eP	10 31 57	...	...	2665	Slight.
	N,E	eS	36 16	...	...	...	Epc.: Probably Russian Turkistan.
	N,E	L	38 50	...	...	...	
	N	Mn	43 12	...	...	...	
	E	Mn	42 8	15	15	...	
	N	F	11 52 ...	...	...	...	
	E	F	56 ...	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
Mar. 5-6	N,E	iP	22 18 57	...	...	1190	Moderate. Epc. : 28°·5 N.79° E Rohilkhand (U. P.)
	N,E	S	21 8	...	...	...	
	N,E	SR_1	21 31	...	...	...	
	N,E	L	21 52	...	...	...	Felt strongly at Moradabad, Bareilly and Meerut.
	N	Mn	24 3 7	144	...		
	E	Mn	22 48	...	...	...	
	N	F	0 0 ...	...	...	...	O: 22h. 16m. 20s. G. M. T.
Mar. 7	N	e	7 23 ...	...	...	...	Tremors.
	N	f	8 6 ...	...	...	...	
Mar. 7	N	e	10 44 ...	...	...	...	Tremors.
	N	f	11 26 ...	...	...	...	
Mar. 9	N	e	3 29 ...	...	...	...	Tremors.
	N	f	3 42 ...	...	...	...	
Mar. 11	N,E	e	11 36 ...	...	...	...	Tremors.
	N	f	12 24 ...	...	...	...	
	E	f	12 20 ...	...	...	...	
Mar. 12	N	e	13 38 ...	...	...	...	Feeble. Distant.
	N,E	e	40 33 ...	...	...		
	N,E	F	15 9 ...	...	...	...	
Mar. 13	N,E	e	3 22 45	...	...	...	Feeble. Near.
	N,E	e	24 15	...	...	...	
	N	F	45 ...	...	...	...	
	E	F	50 ...	...	...	...	
Mar. 13	N,E	e	19 0 ...	...	...	...	Tremors.
	N,E	f	19 15 ...	...	...	...	
Mar. 14	N,E	e	9 25 ...	...	...	...	Tremors.
	N,E	f	9 45 ...	...	...	...	
Mar. 14	N,E	e	12 27 ...	...	...	...	Tremors.
	N,E	F	15 0 ...	...	...	...	
Mar. 14	E	e	15 52 ...	...	...	...	Tremors.
	N	e	58 ...	...	...	...	
	N	F	17 24 ...	...	...	...	
	E	F	18 0 ...	...	...	...	
Mar. 15	N,E	eP	10 36 50	...	...	1290	Slight. Epc: Aftershock of Rohilkhand earthquake.
	N,E	eS	39 10	...	...	...	
	N,E	S (?)	40 27	...	...	...	
	N	Mn	42 8	7	8	...	
	N,E	F	11 5 ...	...	...	...	
Mar. 15	N,E	Mn	12 9 0	...	...	...	Seismic activity.
Mar. 15	N,E	i	12 20 30	...	...	...	Slight. Near.
	N,E	i	24 40	...	...	...	
	N,E	F	57 ...	...	...	...	
Mar. 16	E	iP	8 00 13	...	...	6345	Slight.
	E	iS	8 13	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
	E	eL	18 21	...	...	...	
	E	F	9 6 ...	...	...	...	
Mar. 18	N,E	e	8 49 ...	...	...	...	Feeble. Near.
	N,E	e	55 40	...	...	...	
	E	Mn	59 3	...	...	...	
	N,E	F	9 36 ...	...	...	...	
Mar. 18	N	Mn	9 59 21	...	...	...	Seismic activity.
	E	Mn	59 17	...	...	...	
Mar. 20	N,E	Mn	9 3 20	...	...	...	Seismic activity.
Mar. 20	N	Mn	10 14 20	...	...	...	Seismic activity.
	E	Mn	14 32	...	...	...	
Mar. 20	N,E	P	23 10 3	...	...	9680	Slight. Epc: 4° S. 156° E., Solomon Islands.
	N,E	S	20 48	...	...	...	
	N,E	eL	39 ...	...	...	...	
	E	Mn	47 25	22	10	...	
	N,E	F	Mixed up with the following shock.				
Mar. 21	N,E	iP	00 7 51	...	...	1655	Slight. Epc: 24° N., 88°·3 E. Bengal.
	N,E	iS	10 45	...	...	...	
	N,E	SR_1	11 14	...	...	...	
	N,E	iL	11 44	...	...	...	Felt strongly at Berhampur.
	N	Mn	13 28	5	36	...	
	E	Mn	13 6	6	17	...	O: 0h. 4m. 18s. G. M. T.
	N,E	F	1 49 ...	...	...	...	Calcutta △=160 kms.
Mar. 21	N	Mn	8 30 28	...	...	...	Seismic activity.
	E	Mn	8 27 19	...	...	...	
Mar. 22	N	e	23 25 ...	...	...	...	Tremors.
	E	f	32 ...	...	...	...	
Mar. 24	N,E	e	0 4 0	...	...	...	Feeble. Near.
	N,E	F	21 ...	...	...	...	
Mar. 27	E	Mn	3 9 30	...	...	...	Seismic activity.
Mar. 27	N,E	e	14 46 ...	...	...	...	Tremors.
	N	F	15 16 ...	...	...	...	
	E	F	15 17 ...	...	...	...	
Mar. 28	N,E	P	23 56 26	...	...	5200	Slight
	N,E	PR_1	58 15	...	...	...	
	N	eS	0 3 23	...	...	...	
	E	iS	3 20	...	...	...	
	E	SR_1	6 25	...	...	...	
	N	F	33 ...	...	...	...	
Mar. 29	N,E	eP	12 42 54	...	...	13145	Slight. Epc: Probably New Zealand.
	N,E	PR_1	44 6	...	...	...	
	N,E	Sc PcS	49 54	...	...	...	
	N,E	S	51 54	...	...	...	
	N,E	PS	53 54	...	...	...	
	N,E	PPS	55 9	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
	N	Mn	13 35 20	15	7	...	
	E	Mn	35 18	16	8	...	
	N	F	15 13 ...	...	...	...	
	E	F	25 ...	...	...	...	
Mar. 30	N	Mn	3 19 30	...	...	...	Seismic activity.
	E	Mn	19 34	...	...	...	
Mar. 30	N	eP	21 30 0	...	...	6755	Slight. Epc: probably Japan.
	E	iP	30 3	...	...	...	
	N	S	38 24	...	...	...	
	E	iS	38 27	...	...	...	
	N	PS	38 48	...	...	...	
	N,E	SR_1	43 2	...	...	...	
	N,E	SR_2	45 33	...	...	...	
	N	eL	50 ...	...	...	...	
	E	eL	51 ...	...	...	...	
	N	Mn	59 8	15	6	...	
	E	Mn	22 1 33	...	...	...	
	N,E	F	23 7 ...	...	...	...	
Mar. 31	N,E	e	3 32 ...	...	...	...	Tremors.
	N,E	f	4 26 ...	...	...	...	
Apr. 1	E	e	2 41 ...	...	...	...	Feeble. Distant.
	N,E	e	45 00	...	...	...	
	E	Mn	3 28 30	...	...	...	
	E	F	4 1 ...	...	...	...	
	N	F	8 ...	...	...	...	
Apr. 3	N,E	e	6 59 27	...	...	...	Feeble. Near.
	N,E	f	7 1 31	...	...	...	
	N,E	L	4 ..	...	...	...	
	N	Mn	8 24	15	2	...	
	E	Mn	11 7	15	3	...	
	N	F	8 10 ...	...	...	...	
	E	F	7 55 ...	...	...	...	
Apr. 3	N	Mn	10 9 5	...	...	...	Seismic activity.
	E	Mn	8 21	...	...	...	
Apr. 3	N,E	iP	11 15 53	...	...	1835	Slight. Epc: 34° ·5 N. 73° E. North West Frontier Province along western border of Kashmir. Felt strongly at Srinagar, Peshawar and Drosh O: 11h. 12m. 58. G. M. T.
	N,E	PR_1	16 7	...	...	...	
	N,E	iS	19 4	...	...	...	
	N,E	SR_1	19 31	...	...	...	
	N,E	L	20 19	...	...	...	
	N	Mn	21 16	7	6	...	
	E	Mn	21 42	7	6	...	
	N	F	12 11 ...	...	...	...	
	E	F	12 13 ...	...	...	...	
Apr. 3	N	Mn	12 59 0	...	...	...	Seismic activity.
	E	Mn	59 11	...	...	...	
Apr. 5	N,E	Mn	4 5 20	...	...	...	Seismic activity.

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
Apr. 9	N,E	e	20 11 ...	...	...	...	Tremors.
	N,E	f	30 ...	...	...	...	
Apr. 10	N,E	e	12 25 34	...	...	...	Slight.
	N	Mn	38 30	...	...	...	
	E	Mn	40 16	...	...	...	
	N,E	F	13 23 ...	...	...	...	
Apr. 11	E	e	19 43 19	...	...	...	
	N,E	e	47 14	...	...	...	
	N,E	f	20 14 ...	...	...	...	
Apr. 11	N,E	eP	1 23 2	...	...	2535	Slight. Epc: 14° N. 96° E. Gulf of Martaban O: 1h. 17m. 59s. G. M. T.
	N,E	PR_1	23 36	...	...	...	
	N,E	iS	27 11	...	...	...	
	N,E	SR_1	28 5	...	...	...	
	N	L	29 ...	...	...	...	Maximum movements lost in shifting.
	N,E	F	3 2 ...	...	...	...	
Apr. 11	N,E	e	4 34 ...	...	...	...	Slight. Near.
	N,E	e	39 ...	...	...	...	
	N,E	f	57 ...	...	...	...	
Apr. 11	N,E	iP	23 20 4	...	...	2900	Moderate. Epc: 37° N, 53° E. Destructive in Mazanderan district, Iran.
	N,E	PR_1	20 40	...	...	...	
	N,E	iS	24 40	...	...	...	
	N,E	SR_1	25 49	...	...	...	
	N,E	L	27 13	...	...	...	
	N	Mn	32 52	11	46	...	O: 23h. 14m. 30s. G. M. T.
	E	Mn	31 0	12	43	...	
	N,E	F	Masked by the following shock.				
Apr. 12	N,E	iP	1 11 57	...	...	2900	Slight.
	N,E	iS	16 33	...	...	...	Aftershock of the Iran earthquake.
	E	SR_1	17 42	...	...	...	
	E	L	3 19 16	...	...	...	
	N	Mn	24 40	9	5	...	
	N	F	2 0 ...	...	...	...	
	E	F	Lost in shifting.				
Apr. 12	N,E	iP	12 49 54	...	...	2855	Slight. Aftershock of the Iran earthquake.
	E	PR_1	50 27	...	...	...	
	N,E	eS	54 27	...	...	...	
	N,E	SR_1	55 33	...	...	...	
	N	Mn	13 2 26	10	5	...	
	E	Mn	2 26	15	7	...	
	N,E	F	45 ...	...	...	...	
Apr. 12	N,E	iP	22 37 14	...	...	2845	Slight. Aftershock of the Iran earthquake.
	E	PR_1	37 48	...	...	...	
	N,E	iS	41 46	...	...	...	
	N,E	L	44 ...	...	...	...	
	N	Mn	49 56	...	...	...	
	E	Mn	50 20	11	6	...	
	N,E	F	23 17 ...	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
Apr. 13	N,E	i	2 34 35	...	...	...	Feeble. Distant.
	N,E	e	40 0	...	...	...	
	N	Mn	47 53	...	...	...	
	E	Mn	47 52	...	...	...	
	N,E	F	3 5 ...	...	...	...	
Apr. 15	N	Mn	23 25 42	...	...	...	Seismic activity.
	E	Mn	23 16 ...	...	...	...	
Apr. 16	N,E	e	0 47 ...	...	...	...	Feeble. Near.
	N,E	F	1 4 ...	...	...	...	
Apr. 18	N,E	e	15 8 ...	...	...	...	Feeble. Near.
	N	Mn	12 4	...	...	...	
	E	Mn	11 50	...	...	...	
	N	F	26 ...	...	...	...	
	E	F	25 ...	...	...	...	
Apr. 19	N,E	iP	15 32 41	...	...	5780	Great. Epc : 32° N, 17° E, Mediterranean Sea off coast of Tripoli O : 15h. 23m. 33s. G. M. T.
	N,E	PR_1	34 37	...	...	...	
	N,E	PR_1	35 28	...	...	...	
	N,E	iS	40 9	...	...	...	
	N,E	PS	40 43	...	...	...	
	N,E	SR_1	43 36	...	...	...	
	N,E	SR_2	45 4	...	...	...	
	N,E	L	48 30	...	...	...	
	N	Mn	58 17	15	132	...	
	E	Mn	57 32	18	151	...	
	N	F	19 15 ...	...	...	...	
	E	F	19 20 ...	...	...	...	
Apr. 19	N,E	i	20 48 30	...	...	...	Slight. Distant
	N	Mn	21 4 16	18	4	...	
	E	Mn	5 40	15	5	...	
	N,E	F	22 1 ...	...	...	...	
Apr. 20	N,E	iP	5 20 10	...	...	5755	Slight. Epc: After shock of Mediterranean sea Earthquake.
	N	PR_2	23 0	...	...	...	
	N,E	iS	27 37	...	...	...	
	N,E	L	35 ...	...	...	...	
	N	Mn	47 56	15	12	...	
	E	Mn	44 41	19	20	...	
	N,E	F	7 28 ...	...	...	...	
Apr. 20	N,E	iP	22 10 15	...	...	5055	Great. Epc : 24°N,121°E, Destructive in Formosa Island. O: 22h. 1m. 56s. G.M.T.
	E	PR_1	11 53	...	...	...	
	E	PR_2	12 36	...	...	...	
	N,E	eS	16 45	...	...	...	
	E	SR_1	20 2	...	...	...	
	N,E	SR_2	21 11	...	...	...	
	N,E	eL	23 ...	...	...	...	
	N	Mn	28 7	15	100	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
	E	Mn	30 45	13	83	...	
	N	F	0 53 ...	...	...	...	
Apr. 21	E	eP	7 34 30	...	...	5065	Slight. After shock.
	N,E	iS	41 18	...	...	...	
	N,E	SR_2	44 18	...	...	...	
	N,E	L	48 28	...	...	...	
	N	Mn	55 19	...	...	...	
	E	Mn	54 41	...	...	...	
	N,E	F	9 3 ...	...	...	...	
Apr. 21	N	Mn	19 40 30	...	...	...	Seismic activity.
Apr. 22	N,E	e	13 24 ...	...	...	...	Tremors.
	N,E	f	37 ...	...	...	...	
Apr. 23	N,E	iP	16 50 16	...	...	2180	Moderate. Epc: 25°·5 N., 92°E., Assam. Felt strongly at Shillong, Mymensingh and Dhubri. O: 16h. 45m. 47s. G.M.T.
	N,E	PR_1	50 38	...	...	...	
	N,E	iS	55 56	...	...	...	
	N,E	i	54 11	...	...	...	
	N,E	SR_1	54 38	...	...	...	
	N	F	17 53 ...	...	...	...	
	E	F	17 36 ...	...	...	...	
Apr. 24	N	iP	15 56 45	...	...	2165	Slight Epc: 0°·5 N, 75°E., Southeast of Maldive Islands. O: 15h. 52m. 18s.
	N	iS	16 0 24	...	...	...	
	N	L	1 54	...	...	...	
	N	Mn	4 31	15	22	...	
Apr. 24	N	Mn	18 1 16	...	8	2	Feeble. Near.
	E	Mn	1 16	...	7	3	
	N,E	F	21 ...	...	...	...	
Apr. 24	N	Mn	20 16 30	...	...	...	Seismic activity.
	E	Mn	19 37	...	...	...	
Apr. 26	E	Mn	8 45 30	...	...	...	Seismic activity.
Apr. 27	N,E	e	17 46 ...	...	...	...	Tremors.
	N,E	f	54 ...	...	...	...	
Apr. 29	N,E	e	11 57 ...	...	...	...	Tremors.
	N,E	f	12 23 ...	...	...	...	
May 1	E	e	4 32 ...	...	...	...	Tremors.
		f	44 ...	...	...	...	
May 1	N,E	eP	10 31 25	...	...	3565	Slight. Epc: 38° N., 42° E., (Strasbourg) Kurdistan.
	E	PR_1	32 23	...	...	...	
	N,E	iS	36 45	...	...	...	
	N,E	L	41 20	...	...	...	
	N	Mn	47 35	16	6	...	
	E	Mn	46 36	15	10	...	
	N	F	12 13 ...	...	...	...	
	E	F	12 27 ...	...	...	...	
May 1	N,E	e	14 14 ...	...	...	...	Tremors.
	N,E	f	39 ...	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
May 4	N	e	23 17 27	...	...	...	Slight. Near.
	N	Mn	29 49	...	...	...	
	N	F	0 6 ...	...	...	...	
May 7	N,E	eP	6 4 45	...	...	5800	Slight. Epc: 7° N., 125° E., Mindana Island. O : 5h, 55m. 35s. G. M. T.
	E	S	12 15	...	...	...	
	E	Mn	26 37	...	...	...	
	N,E	F	7 27 ...	...	...	...	
May 10	N,E	e	17 9 45	...	...	...	Slight. Near.
	N,E	i	15 15	...	...	...	
	N	Mn	23 16	...	...	...	
	E	Mn	24 41	...	...	...	
	N,E	F	18 1 ...	...	...	...	
May 12	N,E	eP	5 24 30	...	...	1980	Slight. Epc: 36°·5 N., 72°·5 E. Northwest Frontier Province. Felt at Drosh. O : 5h. 20m. 25s. G. M. T.
	N,E	eS	27 54	...	...	...	
	N,E	L	30 0	...	...	...	
	N	Mn	31 51	8	4	...	
	E	Mn	32 15	...	...	...	
	N	F	6 0 ...	...	...	...	
	E	F	6 5 ...	...	...	...	
May 12	N,E	e	20 8 ...	...	...	...	Feeble. Distant.
	E	M	38 16	...	...	...	
	E	F	21 16 ...	...	...	...	
May 13	N	Mn	2 25 30	...	...	...	Seismic activity.
	E	Mn	24 15	...	...	...	
May 13	E	iP	19 59 21	...	...	2200	Slight. Epc: 22° N., 101° E., O : 19h. 53m. 45s. G. M. T.
	E	iS	20 3 57	...	...	...	
	N,E	SR_1	5 8	...	...	...	
	N	Mn	12 7	...	...	...	
	E	Mn	13 46	9	14	...	
	N	F	22 0 ...	...	...	...	
	E	F	22 7 ...	...	...	...	
May 13	N	Mn	23 39 32	...	...	...	Seismic activity.
	E	Mn	37 24	...	...	...	
May 14	N,E	e	19 8 0	...	...	...	Tremors.
	N,E	f	25 0	...	...	...	
May 14	N,E	eP	23 37 36	...	...	12355	Moderate. Epc : 58° S., 25° W., (J.S.A.). South Sandwich Islands.
	N,E	ePR_2	42 6	...	...	...	
	N,E	ScPcS	48 0	...	...	...	
	N,E	ScPc PcS	49 0	...	...	...	
	E	S	49 45	...	...	...	
	N,E	iPS	51 36	...	...	...	
	N,E	SR_1	58 6	...	...	...	
	N	Mn	0 25 44	19	4	...	
	E	Mn	0 25 37	19	8	...	
	N,E	F	Mixed up with the next shock.				
1935.							
May 15	N,E	P	2 4 7	...	...	1033	Moderate. Epc : 38° N, 68°·5 E, Upper Sind. O : 2h. 1m. 45s. G. M. T.
	N,E	$\overline{P}$	5 3	...	...	...	
	N,E	S	5 57	...	...	...	
	N,E	S*	6 27	...	...	...	
	N	Mn	11 12	7	49	...	
	E	Mn	8 53	6	52	..	
	E	F	3 48 0	...	...	...	
May 16	N	eP	17 28 33	...	...	2055	Slight Epc : 37° N, 71° E, North Afghanistan. O : 17h. 24m. 25s. G. M. T.
	N	PR_1	28 52	...	...	...	
	N,E	S	32 3	...	...	...	
	N	L	33 38	...	...	...	
	E	L	33 30	...	...	...	
	N	Mn	37 0	7	4	...	
	E	Mn	37 26	10	5	...	
	N,E	F	18 9 ...	...	...	...	
May 16	N	e	21 4 ...	...	...	...	Feeble. Very distant.
	N	Mn	22 0 26	...	...	...	
	E	Mn	0 32	...	...	...	
	N,E	F	23 1 ...	...	...	...	
May 20	N,E	e	5 31 0	...	...	...	Feeble. Distant.
	N,E	e	38 44	...	...	...	
	E	Mn	6 0 23	...	...	...	
	N,E	F	6 36 ...	...	...	...	
May 21	N,E	P	4 26 33	...	...	1745	Slight. Epc: 27°·5 N., 87° E. East Nepal. O: 4h. 22m. 52s. G. M. T.
	N,E	i	26 58	...	...	...	
	N,E	S	29 36	...	...	...	
	N,E	SR_1	30 2	...	...	...	
	N,E	L	30 43	...	...	...	
	N	Mn	32 14	7	17	...	
	E	Mn	32 4	7	8	...	
	N,E	F	57 ...	...	...	...	
May 21	N,E	e	7 3 32	...	...	...	Feeble. Distant.
	N,E	i	13 12	...	...	...	
	N	F	8 39 ...	...	...	...	
	E	F	8 27 ...	...	...	...	
May 21	N,E	e	13 27 32	...	...	...	Seismic activity.
May 24	N,E	iP	5 45 35	...	...	5665	Moderate. Epc : 12° N. 125° E. North of Samar Island (Philippines) (J. S. A.)
	E	PR_1	47 34	...	...	...	
	N,E	iS	52 57	...	...	...	
	N,E	PS	53 22			...	
	N,E	L	6 1 0	...	...	...	
	N	Mn	15 0	15	18	...	
	E	Mn	12 13	15	23	...	
	N	F	9 8 ...	...	...	...	
	E	F	9 16 ...	...	...	...	
May 25	N	eP	0 17 5	...	...	5665	Slight. Aftershock of the previous Philippine Earthquake.
	E	iP					
	N,E	iS	24 27	...	...	...	
	E	PS	24 58	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
	N,E	L	33 30	...	...	...	
	N	Mn	41 30	...	...	...	
	E	Mn	42 28	...	...	...	
	N	F	1 31 ...	...	...	...	
	E	F	1 38 ...	...	...	...	
May 26	N,E	iP	22 13 02	...	...	5445	Slight. Aftershock of the Philippine Earthquake.
	N,E	iS	20 17	...	...	...	
	N	SR_1	23 47	...	...	...	
	E	Mn	37 37	...	...	...	
	N,E	F	23 40 ...	...	...	...	
May 27	N,E	e	3 37 ...	...	...	...	Feeble. Distant.
	N	Mn	4 23 25	...	...	...	
	E	Mn	23 23	...	...	...	
	N,E	F	5 10 ...	...	...	...	
May 28	E	Mn	17 44 30	...	...	...	Seismic activity.
	N	Mn	44 50	...	...	...	
May 29	N,E	e	20 1 ...	...	...	...	Feeble.
	N	f	34 ...	...	...	...	
	E	f	36 ...	...	...	...	
May 30	N,E	iP	21 35 33	...	...	1810	Great Epc: Baluchistan.
	N,E	iS	37 55	...	...	...	
	N,E	SR_1	38 17	...	...	...	
	N,E	L	38 39	...	...	...	
	N,E	Mn	?	...	400	...	
May 31	N,E	eP	2 6 2	...	...	1335	Slight. Aftershock of the Great Quetta shock.
	N,E	eS	8 26	...	...	...	
	N	Mn	13 23	9	18	...	
	E	Mn	11 23	10	15	...	
	N,E	F	56 ...	...	...	...	
May 31	N,E	i	8 27 32	...	...	...	Feeble. Distant.
	N,E	e	31 3	...	...	...	
	N,E	i	34 41	...	...	...	
	N,E	F	Masked by microseisms.				
May 31	N,E	i	13 26 52	...	...	...	Feeble.
	N,E	F	58 ...	...	...	...	
May 31	N	eP	17 15 18	...	...	1480	Slight. Aftershock of the Great Quetta shock.
	N	S	17 51	...	...	...	
	N	SR_2	18 14	...	...	...	
	N	L	18 36	...	...	...	
	N	Mn	23 4	...	...	...	
	N	F	53 ...	...	...	...	
June 1	N,E	eP	4 33 1	...	...	1180	Slight. Aftershock of the Great Quetta shock.
	N,E	eS	35 11	...	...	...	
	N,E	L	35 38	...	...	...	
	N	Mn	39 46	7	8	...	
	E	Mn	37 43	6	8	...	
	N,E	F	5 13 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
June 1	N,E	e	12 28 ...	...	...	...	Tremors.
	N,E	f	41 ...	...	...	...	
June 1	N,E	i	12 49 3	...	...	...	Seismic activity.
June 2	N,E	iP	9 19 26	...	...	1235	Moderate. Aftershock of the Great Quetta Earthquake.
	N,E	iS	21 41	...	...	...	
	N,E	SR_1	22 4	...	...	...	
	N,E	L	22 26	...	...	...	
	N	Mn	24 10	7	37	...	
	E	Mn	24 4	5	33	...	
	N,E	F	11 7 ...	...	...	...	
June 9	E	Mn	7 9 35	...	...	...	Seismic activity.
June 18	N,E	Mn	16 58 57	...	...	...	Seismic activity.
June 18	E	iP	22 36 46	...	...	5520	Slight. Epc: Philippine Islands.
	N,E	iS	44 0	...	...	...	
	E	PS	44 38	...	...	...	
	E	Mn	23 2 53	...	...	...	
	N,E	F	Mixed up with microseisms.				
June 22	E	iP	15 57 52	...	...	5720	Slight.
	E	PR_1	16 0 3	...	...	...	N—disturbed by insects.
	E	iS	5 15	...	...	...	
	E	L	14 ...	..	...	...	
	E	Mn	20 40	15	8	...	
	E	F	17 18 ...	..	...	...	
June 23	E	e	7 29 ...	...	...	...	Tremors.
	E	f	36 ...	...	...	...	
June 24-25	N,E	iP	23 36 46	...	...	11220	Moderate. L-waves very poor (Deep-focus). Epc: 19° S., 168·5 E. (J. S. A.), New Hebrides.
	N,E	ScPcS	... 47 12	...	...	...	
	E	PS	... 49 46	...	...	...	
	N,E	PPS	50 36	...	...	...	
	N,E	SR_2	55 30	...	...	...	
	N,E	F	Masked by microseisms.				
June 25	N,E	eP	12 44 51	...	...	7170	Slight.
	N.E	S	53 37	...	...	...	
	N	Mn	13 16 40	11	5	...	
	E	Mn	12 21	15	8	...	
	N,E	F	58 ..	...	...	...	
June 28	E	Mn	3 20 34		...	...	Seismic activity.
June 29	E	PR_1	7 8 27	...	...	15500	Slight. $\Delta_{(PR_1-PR_2)}=139·6°$ of arc. Epc: 18°.2N. 103·3°W (J. S. A.).
	N,E	PR_2	11 33	...	...	...	
	N,E	eL(?)	53 ...	...	...	...	
	N	Mn	8 19 47	18	10	...	
	E	Mn	20 34	17	9	...	
	N,E	F	Masked by microseisms.				
June 30	N,E	e	8 11 ...	...	...	...	Feeble.
	N,E	F	27 ...	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
June 30	N,E	i	9 54 12	...	...	...	Seismic activity.
July 2	E	Mn	15 40 30	...	...	...	Seismic activity.
July 4	N,E	e	2 57 ...	...	...	...	Seismic activity. Near.
	N,E	f	Masked by microseisms.				
July 5	N,E	P	17 57 31	...	...	2200	Epc: Pamir Plateau. Felt at Srinagar.
	N,E	iS	18 1 13	...	...	...	
	N,E	SR_1	1 59	...	...	...	
	N,E	L	2 43	...	...	...	
	N	Mn	6 42	10	21	...	
	E	Mn	7 4	13	17	...	
	N,E	F	Masked by microseisms.				
July 7	E	P	13 31 28	...	...	4835	Slight. Epc: 18° 20' N., 120° 10' E. (Manila), near Luzon in Philippine Islands.
	N,E	S	38 3	...	...	...	
	N,E	eL	44 42	...	...	...	
	N	Mn	55 42	13	5	...	
	E	Mn	53 57	15	8	...	
	N,E	F	Masked by microseisms.				
July 9	E	Mn	13 49 39	...	...	...	Feeble. Very distant.
July 10	N	i	20 33 45	...	...	...	Feeble.
	N,E	i	37 11	...	...	...	
	N	Mn	40 12	7	3	...	
	E	Mn	40 7	11	6	...	
	N,E	F	Masked by microseisms.				
July 11	N,E	e	9 1 0	...	...	...	Seismic activity.
July 12	E	Mn	1 58 24	...	...	...	Slight.
July 12	E	e	21 12 ..	...	...	...	Tremors.
	E	f	31 ...	...	...	...	
July 13	E	e	0 59 ...	...	...	...	Tremors.
	E	f	1 26 ...	...	...	...	
July 15	E	Mn	18 54 13	...	...	...	Seismic activity.
July 16	N,E	iP	16 27 15	...	...	4950	Slight. Epc: 24°4. N., 120°4 E. (Taihoku). Near Formosa Island.
	E	PR_1	20 2	...	...	...	
	N,E	iS	33 57	...	...	...	
	N,E	SR_1	37 0	...	...	...	
	N,E	SR_2	38 23	...	...	...	
	N,E	L	42 ...	...	...	...	
	N	Mn	46 1	15	25	...	
	E	Mn	49 37	9	8	...	
	N	F	17 38 ...	...	...	...	
	E	F	43 ...	...	...	...	
July 17	E	e	5 18 ...	...	...	...	Tremors.
		f	48 ...	...	...	...	
July 17	N,E	e	11 11 21	...	...	...	Slight. Distant.
	N,E	i	14 45	...	...	...	
	N	i	15 13	...	...	...	
	N	Mn	45 43	15	3	...	
	E	Mn	48 35	15	5	...	
	N	F	12 58 ...	...	...	...	
	E	F	13 2 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935							
July 18	N,E	e	2 24 ...	...	...	...	Tremors.
	N,E	f	30 ...	...	...	...	
July 19	E	iP	1 00 14	...	...	6710	Moderate. Epc: Kasimanada, Japan (Manila).
	E	iS	8 35	...	...	...	
	E	PS	9 0	...	...	...	
	E	SR_1	12 49	...	...	...	
	E	L	19 00	...	...	...	
	E	Mn	28 41	...	...	...	
	E	F	2 55 ...	...	...	...	
July 19	E	Mn	3 26 36	...	...	...	Seismic activity.
July 20	N,E	iP	7 41 45	...	...	220	Slight. Epc: Probably near Tapti Valley. Felt at Surat, Baroda, Kapadvanj (Kaira Dist.) and Bombay.
	N,E	S*	42 12	...	...	...	
	N,E	$\overline{S}$	42 22	...	...	...	
	N	F	Masked by microseisms.				
	E	F	52 ...	...	...	...	
July 22	N,E	e	19 30 ...	...	...	...	Tremors.
	N,E	f	37 ...	...	...	...	
July 23	N,E	iP	4 00 8	...	...	2335	Slight. L-waves poor.
	N,E	iS	4 0	...	...	...	
	N,E	SR_1	5 0	...	...	...	
	N,E	eL	6 ...	...	...	...	
	E	Mn	7 15	11	?	...	
	N,E	F	Masked by microseisms.				
July 26	N,E	e	9 21 ...	...	...	...	Feeble. Near.
	N,E	e	25 ...	...	...	...	
	N,E	f	45 ...	...	...	...	
July 26	N,E	e	10 40 ...	...	.	...	Slight. Near.
	N,E	i	43 9	...	...	...	
	N	Mn	48 23	12	38	...	
	E	Mn	49 14	15	28	...	
	E	F	11 54 ...	...	...	...	
	N	F	36 ...	...	...	...	
July 27	N	e	12 18 ...	...	...	...	Feeble. Near.
	N	e	21 35	...	...	...	
	E	i	21 35	...	...	...	
	N,E	F	39 ...	...	...	...	
July 28	N,E	i	5 27 59	...	...	...	Slight. Felt at Srinagar, Drosh, Gulmarg.
	N,E	i	31 16	...	...	...	
	N,E	F	57 ...	...	...	...	
July 29	N,E	i	4 32 15	...	...	...	Feeble. Near.
	N,E	i	33 8	...	...	...	
	N,E	i	33 40	...	...	...	
July 29	N,E	eP^1	7 52 59	...	...	14020	Moderate. Epc: Near 22°·9 S., 178°·2 W (J.S.A.).
	N,E	ScPcS	59 59	...	...	...	
	E	$\overline{ScPcPcS}$	8 1 22	...	...	...	
	N,E	S	2 50	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
	N,E	PS	4 44	...	...	...	
	N,E	PPS	6 18	...	...	...	
	E	Mn	49 47	19	14	...	
	N	F	10 13 ...	...	...	...	
	E	F	20 ...	...	...	...	
July 29	N,E	eP	23 21 40	...	...	2110	Slight. Felt at Srinagar.
	N,E	eS	25 14	...	...	...	
	N,E	L	26 43	...	...	...	
	N	Mn	29 10	7	4	...	
	E	Mn	28 18	11	7	...	
	N,E	F	23 35 ...	...	...	...	
July 30	N,E	e	0 11 ...	...	...	...	Tremors.
	N,E	f	32 ...	...	...	...	
July 30	N,E	e	5 55 ...	...	...	...	Slight. Distant.
	N	Mn	6 14 45	...	...	...	
	E	Mn	14 30	...	...	...	
	N,E	F	Masked by microseisms.				
July 31	E	e	10 7 ...	...	...	...	Seismic activity.
	N	Mn	11 30 ...	...	...	...	
Aug. 1	E	e	14 12 ...	...	...	...	Slight. Distant.
	N,E	i	23 13	...	...	...	
	E	Mn	40 19	...	...	...	
	N,E	F	15 33 ...	...	...	...	
Aug. 1	E	Mn	17 55 28	...	...	...	Seismic activity.
Aug. 3	N,E	iP	1 15 49	...	...	2955	Great. Epc: 5°·5 N. 96°·5E. off North Sumatra. O: 1h. 10m. 6s. G.M.T.
	N,E	PR_1	16 25	...	...	...	
	N,E	S	20 29	...	...	...	
	N,E	SR_1	21 42	...	...	...	
	N	L	23 18	...	...	...	
	E	L	23 10	...	...	...	
	N	Mn	32 13	15	253	...	
	E	Mn	27 25	15	>378 N	...	
	N	F	4 53 ...	...	...	...	
	E	F	4 45 ...	...	..	..	
Aug. 3	E	Mn	12 19 13	...	...	...	Seismic activity.
Aug. 3	E	e	13 30 ...	...	...	...	Feeble. Near.
	N	i	34 47	...	...	...	
	N,E	F	54 ...	...	...	...	
Aug. 6	E	Mn	1 10 25	...	...	...	Seismic activity.
Aug. 11	N,E	e	9 6 ...	...	...	...	Tremors.
	N,E	f	20 ...	...	...	...	
Aug. 17	N	eP	1 58 29	...	...	11780	E=Beg. lost in shifting. Moderate.
	N	PR_1	2 2 55	...	...	...	
	N	$\overline{ScPcS}$	9 12	...	...	...	
	N,E	$\overline{ScPc}$ $\overline{PcS}$	10 7	...	...	...	Epc: 20° S, 171°.5 E., (J. S. A.). Near New Hebrides.
	N,E	PS	12 18	...	...	...	
	N,E	SR_1	17 55	...	...	...	

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
	N,E	L	33 ...	...	...	...	
Aug. 17	N	Mn	49 7	23	15	...	
	E	Mn	46 37	23	27	...	
	N	F	4 24 ...	...	...	...	
	E	F	5 0 ...	...	...	...	
Aug. 23	N,E	e	01 0 ...	...	...	1890	Feeble tremors felt at Delhi.
	N,E	f	06 ...	...	...	...	
Aug. 23	N,E	eP	14 4 58	...	...	3935	Moderate. Epc: South Sumatra (Batavia).
	N,E	PR_2	6 07	...	...	...	
	N,E	S	10 41	...	...	...	
	N,E	SR_2	13 21	...	...	...	
	N,E	L	16 ...	...	...	...	
	N	Mn	20 43	23	30	...	
	E	Mn	21 5	15	15	...	
	N,E	F	16 13 ...	...	...	...	
Aug. 25	N,E	e	5 18 ...	...	...	...	Feeble. Distant.
	N	Mn	55 34	15	3	...	
	E	Mn	55 14	15	4	...	
	N,E	F	6 34 ...	...	...	...	
Aug. 26	N,E	i	12 26 39	...	...	...	Seismic activity.
Aug. 26	N	Mn	17 0 31	...	...	...	Seismic activity.
	E	Mn	17 3 23	...	...	...	
Aug. 27	N,E	e	5 48 ...	...	...	...	Tremors.
	N,E	f	6 7 ...	...	...	...	
Aug. 31	N,E	e	17 45 ...	...	...	...	Feeble. Distant.
	N,E	Mn	18 24 27	...	...	...	
	N,E	F	Masked by microseisms.				
Sept. 4	N,E	iP	1 46 00	...	...	4955	Moderate. Epc: 22° 30′ N 121° 30′ E. (Taihoku) off Formosa Island.
	N,E	iPR_1	48 3	...	...	...	
	N,E	iS	52 42	...	...	...	
	N,E	L	59 18	...	...	...	
	N,E	Mn	2 4 59	19	51	...	
	E	Mn	7 58	19	53	...	
	N,E	F	Mixed up with the following shock.				
Sept. 4	N,E	i	3 36 36	...	...	...	Aftershock of the previous shock.
	N,E	e	43 0	...	...	...	
	N	Mn	55 0	18	7	...	
	N,E	F	Masked by microseisms.				
Sept. 5	N,E	e	12 43 ...	...	...	...	Feeble.
	N,E	f	53 ...	...	...	...	Felt locally at Dhubri, Cooch Behar Temors.
Sept. 7	N	e	8 1 ...	...	...	...	
	N	f	22 ...	...	...	...	Felt at Drosh.
Sept. 9	N,E	P	6 28 30	...	...	7420	Moderate. L.-Waves poor Epc: 5°·8 N., 139° E. (J. S. A.).
	N,E	iS	37 28	...	...	..	
	N,E	PS	37 48	...	...	...	
	N,E	SR_1	41 40	...	...	...	
	E	Mn	57 57	19	18	...	
	N,E	F	Masked by microseisms				

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
Sept. 11	N	Mn	12 58 27	...	...	...	Feeble. Distant.
	E	Mn	57 29	...	...	...	
Sept. 11	N,E	iP	14 14 42	...	...	7110	Moderate. Epc : 45° N, 146° E (U. S. C. G. S.). off Hokaido Island (Japan).
	N,E	iS	23 25	...	...	...	
	N,E	PS	23 57	...	...	...	
	N,E	SR_1	27 42	...	...	...	
	E	SR_1	29 57	...	...	...	
	N,E	L	36 ...	...	...	...	
	N	Mn	44 1	9	18	...	
	E	Mn	46 19	17	53	...	
	N	F	17 20 ...	...	...	...	
	E	F	17 23 ...	...	...	...	
Sept. 12	N,E	Mn	17 27 28	...	...	...	Seismic activity.
Sept. 15	N,E	e	11 27 36	...	...	...	Feeble. Distant.
	N,E	e	37 46	...	...	...	
	E	Mn	12 4 17	...	...	...	
	N	Mn	3 20	...	...	...	
	E	F	13 12 ...	...	...	...	
	N	F	13 1 ...	...	...	..	
Sept. 15	N,E	e	14 29 ...	...	...	...	Slight. Distant.
	N	Mn	15 40 5	18	4	...	
	E	Mn	40 27	23	12	...	
	N,E	F	16 57 ...	...	...	...	
Sept. 15	N,E	F	19 33 38	...	...	...	Very slight.
	N,E	S	33 45	...	...	...	△ = 30 miles (approximately.) Felt locally at Thana, Thakurli and Dombivli.
	N,E	F	Masked by microseisms				
Sept. 18	N,E	e	8 34 ...	...	...	...	Slight. Distant.
	E	Mn	9 3 53	...	...	...	
	N,E	F	Masked by microseisms				
Sept. 19	E	Mn	3 16 36	...	...		Seismic activity.
Sept. 20	N,E	P	01 58 02	...	...	7910	Great. Epc : 3°S., 142°E., Near British New Guinea.
	N	S	2 7 23	...	...	...	
	N,E	SR_1	12 1	...	...	...	
	N,E	SR_2	15 2	...	...	...	
	N,E	L	21 ...	...	...	...	
	N	Mn	25 23	26	234	..	
	E	Mn	32 30	23	283	...	
	N,E	F	Mixed up with the following shock.				
Sept. 20	N,E	iP	5 34 32	...	...	7945	Moderate. Aftershock of the previous great shock.
	N,E	PR_1	37 14	...	...	...	
	N,E	iS	43 55	...	...	...	
	N,E	SR_2	51 37	..	..	...	
	N,E	L	58 ..	...	...	...	
	E	Mn	6 7 40	...	...	...	
	N,E	F	Masked by microseisms				

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
Sept 20	E	i	21 15 34	...	...	...	Feeble. Distant.
	N	e	14 ...	...	...	...	
	N	F	22 34 ...	...	...	...	
	E	F	44 ...	...	...	...	
Sept. 23	N,E	e	9 14 ..	...	...	...	Feeble.
	N,E	f	Mixed up with the following shock.				
Sept. 23	N,E	iP	9 29 47	...	...	7945	Moderate. Aftershock of the great shock of 20th.
	E	PR_1	32 15	...	...	...	
	N,E	iS	39 10	...	...	...	
	N,E	PS	39 45	...	...	...	
	N,E	L	53 ..	...	...	...	
	N	F	12 35 ..	...	...	...	
	E	F	42 ..	...	...	...	
Sept. 24	N	e	5 12 ..	...	...	...	Feeble. Distant.
	E	i	12 28	...	...	...	
	N,E	f	6 3 ..	...	...	...	
Sept. 24	N	e	22 3. ...	...	...	...	Feeble. Distant.
	N	Mn	23 19 20	...	...	...	
	E	Mn	15 56	...	...	...	
	N,E	F	53 ..	...	...	...	
Sept. 25	N	ePiP	10 31 8	...	...	7820	Slight. Aftershock of the great shock of 20th.
	E						
	N,E	iS	40 24	...	...	...	
	N,E	PS	40 54	...	...	...	
	E	Mn	11 4 24	..	..	...	
	N,E	F	12 0 ...	..	...	...	
Sept. 26	N	Mn	23 22 39	...	...	...	
Sept. 29	N,E	e	6 41 ..	...	...	..	Slight. Near .
	N,E	i	45 2	...	...	...	
	N	Mn	51 14	..	..	..	
	E	Mn	50 18	..	..	...	
	N,E	F	7 11 ..	..	..	...	
Sept. 30	N	Mn	19 46 30	...	...	...	Seismic activity.
	E	Mn	47 25	...	...	...	
Oct. 1	E	Mn	1 06 18	...		...	
Oct. 1	N,E	e	6 21 ..	...	...	..	Feeble.
	N,E	f	42 ..	...	...	...	
Oct. 2	N,E	iP	5 43 38	...	...	7065	Slight. Epc : 40°N., 144° E., near Japanese Islands. O : 5h. 33m. 07s.
	N,E	PR_1	46 6	...	...	...	
	N,E	iS	52 19	...	...	...	
	N,E	PS	52 52	...	...	...	
	E	Mn	6 15 26	18	7	...	
	N,E	F	7 8 ...	...	...	...	
Oct. 4	E	iP	5 24 6	...	...	5190(?)	Slight. Epc : 6° 20′ N., 125° E. (Manila), Mindanao Islands. Deep focus.
	E	iS	31 01	...	...	...	
	E	F	6 1 ...	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
Oct. 4	E	eP	14 53 25	...	...	1270	Slight. Epc: Aftershock of Baluchistan Earthquake O: 14h. 50m. 40s.
	E	eS	55 43	...	...	...	
	E	L	56 17	...	...	...	
	E	F	15 50 ...	...	...	...	
Oct. 6	N,E	i	14 54 30	...	...	...	Slight. Near.
	N,E	e	58 0	...	...	...	
	N	Mn	15 0 16	7	4	...	
	N,E	F	21 ...	...	...	...	
Oct. 7	N,E	e	6 12 ...	...	...	...	Tremors.
	N,E	f	32 ...	...	...	...	
Oct. 8	N,E	P	9 23 43	...	...	2255	Slight. Epc: 39° N., 73° E. (Pamir Plateau) O: 9h. 19m. 15s.
	N,E	iS	27 29	...	...	...	
	N,E	SR_1	28 12	...	...	..	
	N,E	L	29 ...	...	...	...	
	N,E	Mn	32 20	...	...	...	
	N	F	10 44 ...	...	...	...	
	E	F	40 ...	...	...	...	
Oct. 9	N,E	e	22 30 ...	...	...	...	Feeble. Distant.
	N,E	f	23 21 ...	...	...	...	
Oct. 11	N,E	iP	4 24 13	...	...	1940	Slight. Deep focus. Depth about 200 kms. Epc: 36° N., 71·5° E., (Border of N. W. F. Province and Kashmir). Felt at Peshawar, Kabul and Drosh.
	N	SP	25 6	...	...	...	
	N,E	iS	27 21	...	...	...	
	N,E	L (?)	28 23	...	...	...	
	N,E	M	Movements small.			...	
	N,E	F	5 0 ...	...	...	...	
Oct. 11-12	N,E	iP	22 27 33	...	...	8165	Slight. L-waves poorly developed. Epc. Near 1° N., 145° E., (Manila).
	E	PR_1	30 18	...	...	...	
	N,E	S	37 7	...	...	...	
	N,E	PS	37 40	...	...	...	
	N,E	SR_1	41 52	...	...	...	
	N,E	L	51 20	...	...	...	
	N,E	M	Movements small.			...	
	N	F	0 39 ...	...	...	...	
	E	F	0 56 ...	...	...	...	
Oct. 12	N,E	eP	16 55 50	...	...	6980	Moderate. Epc: 42° N., 144° E., (Japan). O: 16h. 45m. 30s.
	N,E	iS	17 4 26	...	...	...	
	N,E	PS	4 56	...	...	...	
	E	SR_1	8 41	...	...	...	
	N,E	L	16 ...	...	...	...	
	N	Mn	25 14	16	20	...	
	E	Mn	25 26	15	19	...	
	N,E	F	19 46 ...	...	...	...	
Oct. 13	N,E	e	2 8 ...	...	...	...	Feeble. Distant.
	N	Mn	39 17	14	3	...	
	E	Mn	39 40	13	2	...	
	N,E	F	3 33 ...	...	...	...	

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
Oct. 13	N	e	10 26 0	...	...	...	Feeble.
	E	i					
	E	Mn	32 9	15	4	...	
	N,E	F	11 6 ...	...	...	...	
Oct. 14	N,E	i	20 24 54	...	...	...	Tremors.
	N,E	F	55 ..	...	...	...	
Oct. 15	N,E	e	17 8 ...	...	...	...	Feeble. Felt at Bushire.
	N,E	f	27 ...	...	...	...	
Oct. 17	N,E	e	14 38 35	...	...	...	Feeble. Distant.
	N,E	e	43 26	...	...	...	
	N	Mn	54 33	...	...	...	
	E	Mn	53 10	14	3	...	
	N,E	F	15 50 ...	...	...	...	
Oct. 18	N	iP	0 22 31	...	...	6945	Moderate. Epc. Japan.
	N	iS	31 5	...	...	...	
	N	PS	31 29	...	...	...	
	N	L	42 ...	...	...	...	
	N	Mn	51 50	16	24	...	
	N	F	4 01 ...	...	...	...	
	E	F	03 ...	...	...	...	
Oct. 18	N,E	iP	11 16 12	...	...	7110	Slight. Epc.: 43°. 8 N, 147°.6, (J. S. A.).
	E	PR_1	18 39	...	...	...	
	N,E	eS	24 55	...	...	...	
	N,E	PS	25 28	...	...	...	
	E	SR_1	29 21	...	...	...	
	N,E	eL	36 ...	...	...	...	
	E	Mn	46 55	19	16	...	
	N,E	F	14 15 ...	...	...	...	
Oct. 18	N,E	iP	15 4 26	...	...	6980	Slight. Epc. Japan.
	N,E	iS	13 2	...	...	...	
	E	PS	13 39	...	...	...	
	E	SR_1	17 17	...	...	...	
	N,E	L	24 ...	...	...	...	
	N	Mn	35 42	15	13	...	
	E	Mn	34 6	15	10	...	
	N	F	17 37 ...	...	...	...	
	E	F	55 ...	...	...	...	
Oct. 18	N,E	e	22 2 ...	...	...	...	Feeble, Distant.
	N	Mn	37 28	15	3	...	
	E	Mn	36 16	14	3	...	
	N	F	23 18 ...	...	...	...	
	E	F	31 ...	...	...	...	
Oct. 19	N	Mn	1 33 ...	...	...	...	Seismic activity.
	E	Mn	1 34 ...	...	...	...	
Oct. 19	N,E	e	2 49 30	...	...	...	Feeble. Distant.
	N	Mn	3 22 11	...	...	...	
	E	Mn	19 23	...	...	...	
	N,E	F	55 ...	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.		Km.	
1935.							
Oct. 19	E	Mn	6 0 37	...	...	...	Seismic activity.
	N	Mn	2 26	...	...	...	
Oct. 19	N,E	e	20 31 2	...	...	...	Feeble. Near
	N	Mn	33 40	6	4	...	Felt at Shillong and Jorhat (Agra), Gauhati and Salona
	N	F	50 ...	...	...	...	
	E	F	42 ...	...	...	...	
Oct. 20	E	e	4 54 ...	...	...	...	Slight.
	N	e	57 ...	...	...	...	Felt at Salona.
	E	Mn	5 0 37	14	7	...	
	E	F	6 5 ...	...	...	...	
	N	F	5 56 ...	...	...	...	
Oct. 20	N,E	e	19 2 ...	...	...	...	Feeble seismic movements.
	N,E	f	10 ...	...	...	...	
Oct. 25	N,E	e	0 18 28	...	...	...	Feeble. Very distant.
	N,E	Mn	1 2 20	...	...	...	
	N,E	F	49 ...	...	...	...	
Oct. 25	N,E	e	18 12 ...	...	...	...	Feeble.
	N	Mn	17 30	...	...	...	
	E	Mn	18 23	15	4	...	
	N,E	F	41 ...	...	...	...	
Oct. 26	N	e	21 21 ...	...	...	...	Slight. Near.
	N,E	e	25 12	...	...	...	
	N	Mn	28 51	11	4	...	
	N,E	F	58 ...	...	...	...	
Oct. 27	N,E	e	6 47 28	...	...	...	Feeble. Distant.
	N,E	e	51 6	...	...	...	
	N,E	f	7 34 ...	...	...	...	
Oct. 28	N	e	12 11 0	...	...	...	Slight. Near.
	N,E	e	14 34	...	...	...	
	N	Mn	18 17	9	4	...	
	E	Mn	18 32	...	...	...	
	N	F	55 ...	...	...	...	
	E	F	48 ...	...	...	...	
Oct. 30	N,E	e	2 35 37	...	...	...	Slight. Near.
	N,E	e	39 35	...	...	...	
	N	Mn	43 16	11	8	...	
	E	Mn	43 45	11	4	...	
	N,E	F	3 6 ...	...	...	...	
Oct. 30	N,E	e	16 26 ...	...	...	...	Feeble. Felt at Dimbri, Gauhati and Shillong.
	N,E	f	17 2 ...	...	...	...	
Oct. 31	E	Mn	19 41 29	...	...	...	Seismic activity.
Oct. 31	N,E	i	23 14 5	...	...	...	Seismic activity.
Nov. 1	N,E	e	6 22 33	...	...	...	
	N,E	i	32 14	...	...	...	
	N	Mn	7 12 16	...	...	...	
	E	MN	15 38	...	...	...	
	N,E	F	16 ...	...	...	...	

Date.	Compt.	Phase	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
Nov. 1	N,E	eP	16 28 1	...	...	3210	Moderate. Epc: 32° N, 103° E Sip-song Chow Thai (French Indo China).)
	N,E	iS	32 59	...	...	...	
	N,E	SR_1	34 24	...	...	...	
	N,E	L	36 21	...	...	...	
	N	Mn	40 45	13	163	...	O: 16h 22m 01S G. M. T.
	E	Mn	40 49	12	53	...	
	N,E	F	Masked by microseisms.				
Nov. 1	N	e	21 0 0	...	...	...	Seismic activity.
	N	Mn	12 46	...	...	...	
Nov. 3	N,E	e	16 36 ...	...	...	...	Feeble. Near.
	N	Mn	47 29	7	4	...	
	E	Mn	47 32	13	5	...	
	N,E	F	17 10 ...	...	...	...	
Nov. 5	N	e	21 7 10	...	...	...	Feeble. Distant.
	E	i	6 50	...	...	...	
	N,E	i	14 20	...	...	...	
	E	Mn	32 30	...	...	...	
	N,E	F	22 4 ...	...	...	...	
Nov. 10	E	Mn	19 57 30	...	...	...	Seismic activity.
Nov. 11	N,E	e	13 24 ...	...	...	...	Feeble.
	N,E	f	14 42 ...	...	...	...	
Nov. 12	N,E	eP	21 34 15	...	...	3080	Slight.
	N,E	eS	39 4	...	...	...	
	N,E	i	39 27	...	...	...	
	N,E	SR_1	40 27	...	...	...	
	N,E	L	42 ...	...	...	...	
	N	Mn	48 50	...	...	...	
	E	Mn	48 45	15	8	...	
	N,E	F	22 56 ...	...	...	...	
Nov. 14	N,E	e	20 9 ...	...	...	...	Feeble. Distant.
	N,E	e	19	...	...	...	
	N	Mn	Movements small.			...	
	E	Mn	38 30	...	...	...	
	N	F	21 18 ...	...	...	...	
	E	F	34 ...	...	...	...	
Nov. 16	N,E	e	5 59 ...	...	...	...	Feeble. Distant.
	N,E	f	7 8 ...	...	...	...	
Nov. 17	N,E	e	7 59 ...	...	...	...	Feeble. Distant.
	N,E	f	9 15 ...	...	...	...	
Nov. 23	N,E	e	8 12 25	...	...	...	Feeble. Distant.
	E	Mn	9 27 32	...	...	...	
	N	Mn	Movement small.			...	
	N,E	F	10 0 ...	...	...	...	
Nov. 25	N,E	iP	10 8 23	...	...	2680	Moderate.
	N,E	iS	12 43	...	...	...	Epc: 7° N., 94° E. South of Nicobar Islands.
	N.E	SR_1	13 46	..	..	...	O: 10h. 3m. 7s. G. M. T.
	N,E	L	15 ...	...	..	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
Nov. 25	N	Mn	19 16	15	32	...	
	E	Mn	20 1	15	48	...	
	N,E	F	13 18 ...	...	...	...	
Nov. 26	N,E	e	0 44 37	...	...	...	Feeble.
	N,E	f	1 2 ...	...	...	...	
Nov. 26	N	iP	18 38 40	...	...	2810	Slight.
	N	eS	43 14	...	...	...	Epc: Near that of Nov. 25.
	N	SR_1	44 11	...	...	...	
	N	L	46 ...	...	...	...	
	N	F	21 3 ...	...	...	...	
Nov. 29	N,E	e	18 25 ...	...	...	...	Feeble. Distance.
	N,E	f	Masked by the following shock.				
Nov. 29	N,E	i	19 42 27	...	...	...	Slight. Near.
	N	Mn	49 19	...	...	...	
	E	Mn	48 49	...	...	...	
	N,E	F	20 11 ...		...	...	
Nov. 30	N,E	e	3 40 ...	...	...	...	Feeble. Very distant.
	N,E	f	6 25 ...	...	...	...	
	N	f	6 15 ...	...	...	...	
Dec. 1	N,E	P	23 54 10	...	...	5600	Slight.
	N,E	S	0 1 28	...	...	...	
	E	L	10 ...	...	...	...	
	N	Mn	18 0	13	4	...	
	E	Mn	18 34	12	4	...	
	N	F	1 12 ...	...	...	...	
	E	F	1 22 ...	...	...	...	
Dec. 2	N,E	e	16 51 40	...	...	...	Feeble. Distant.
	N,E	e	59 0	...	...	...	
	N	Mn	17 15 28	11	4	...	
	E	Mn	18 11	10	3	...	
	N,E	F	18 7 ...	...	...	...	
Dec. 3	N,E	e	3 26 ...	...	...	...	Feeble. Near. Felt at Gauhati.
	N,E	f	40 ...	...	...	...	
Dec. 5	N,E	e	18 10 ...	...	...	...	Feeble. Distant.
	E	Mn	19 3 30	...	...	..	
	N	F	20 2 ...	...	...	...	
	E	F	20 11 ...	...	...	...	
Dec. 7	N,E	e	11 53 ...	...	...	...	Tremors.
	N,E	f	12 38 ...	...	...	...	
Dec. 8	N,E	e	17 27 14	...	...	...	Slight.
	N,E	e	33 4	...	...	...	
	E	Mn	41 18	...	...	...	
	N,E	F	18 38 ...	...	...	...	
Dec. 9	E	e	7 41 ...	...	...	...	Feeble. Distant.
	E	f	9 11 ...	...	...	...	
Dec. 11	N	e	9 15 51	...	...	...	Seismic activity
	E	e	20 32	...	...	...	
Dec. 11	E	e	12 24 42	...	...	..	Seismic activity.
Dec. 14	N	i	1 49 41	...	...	...	Slight. Distant.
	N	e	52 5	...	...	...	
	E	F	3 54 ...	...	...	...	
	N	F	3 47 ...	...	...	...	
Dec. 14	N,E	i	12 57 43	...	...	...	Feeble. Distant.
	N,E	i	13 6 10	...	...	...	
	N,E	e	8 10	...	...	...	
	N,E	F	56 ...	...	...	...	
Dec. 14	N,E	P	22 24 58	...	...	16235	Moderate.
	N	i	28 19	...	...	...	Epc: 14° N., 94° W. (U. S. C. G. S.)
	N	i	35 5	...	...	...	
	N,E	SR_1	47 13	...	...	...	
	N,E	SR_2	52 21	...	...	...	
	N,E	L	23 8 ...	...	...	...	
	N	Mn	32 50	23	61	...	
	E	Mn	27 42	29	48	...	
	N,E	F	1 06 ...	...	...	...	
Dec. 15	N,E	eP	7 21 1	...	...	10145	Great.
	N,E	PR	24 54	...	...	...	Epc: 12° S., 161°E, (U. S. C. G. S.)
	N,E	PR_2	27 9	...	...	...	Felt in Solomon Island.
	N,E	S	32 01	...	...	...	
	N,E	SR_1	38 01	...	...	...	
	N,E	SR_2	42 01	...	...	...	
	N,E	L	51 ...	...	...	...	
	N	Mn	59 16	28	122	...	
	E	Mn	8 2 50	23	170	...	
	N,E	F	11 50 ...	...	...	...	
Dec. 16	N,E	i	17 15 53	...	...	...	Seismic activity.
Dec. 17	N,E	e	13 31 ...	...	...	...	Feeble. Distant.
	N,E	f	14 54 ...	...	...	...	
Dec. 17	E	iP	19 26 22	...	...	5510	Moderate.
	E	PR_1	28 28	...	...	...	Epc: 24° N., 124° E. East of Formosa.
	E	iS	33 35	...	...	...	Felt in Northern Luzon (Manila).
	E	PS	34 16	...	...	...	
	E	SR_1	36 57	...	...	...	
	E	L	42 ...	...	...	...	
	E	Mn	49 22	16	31	...	
	E	F	23 22 ...	...	...	...	
Dec. 18	N,E	iP	7 16 47	...	...	3155	Slight.
	N,E	eS	21 41	...	...	...	Epc: 32° N., 103° E. French Indo-China.
	N,E	SR_1	23 9	...	...	...	
	N,E	L	25 ...	...	...	...	
	N	Mn	29 6	13	10	...	
	E	Mn	30 25	15	10	...	
	E	F	9 8 ...	...	...	...	

TABLE D_2—*contd.*

Date	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935.							
Dec. 18	N,E	e	11 53 ...	...	...	...	Tremors.
	N,E	f	12 1 ...	...	...	...	
Dec. 18	N,E	e	13 24 ...	...	...	...	Tremors.
	N,E	f	47 ...	...	...	...	
Dec. 18	N,E	iP	17 5 39	...	...	3155	Slight.
	N,E	eS	10 33	...	...	...	
	E	SR_1	12 3	...	...	...	
	N,E	L	14 ...	...	...	...	
	N	Mn	20 33	7	4	...	
	E	Mn	19 26	7	4	...	
	N,E	F	18 8 ...	...	...	...	
Dec. 18	N,E	e	21 19 ...	...	...	...	Tremors.
	N,E	f	46 ...	...	...	...	
Dec. 19	N,E	e	9 52 ...	...	...	...	Feeble.
	N,E	f	10 17 ...	...	...	...	
Dec. 19	N,E	e	13 37 ...	...	...	...	Feeble.
	N,E	f	14 5 ...	...	...	...	
Dec. 19	N	e	21 33 ...	...	...	...	Feeble.
	N,E	e	37 30 ...	...	...	...	
	N	Mn	40 6	...	...	...	
	E	Mn	39 58	8	3	...	
	N,E	F	59 ...	...	...	...	
Dec. 19	N	iP	23 14 40	...	...	1900	Feeble.
	E	eP					
	N	i	15 34	...	...	...	Felt at Quetta.
	N,E	eS	17 57	...	...	...	
	N,E	F	42 ...	...	...	...	
Dec. 20	N,E	e	18 50 0	...	...	...	Slight. Very distant.
	N,E	e	19 0 35	...	...	...	
	N,E	F	21 46 ...	...	...	...	
Dec. 22	N,E	e	12 33 30	...	...	...	Feeble.
	N,E	e	40 56	...	...	...	
	N,E	f	13 12 ...	...	...	...	
Dec. 22	N,E	e	20 33 ...	...	...	...	Slight. Near.
	N,E	e	37 16	...	...	...	
	E	Mn	45 24	...	...	...	
	N,E	F	21 17 ...	...	...	...	
1935.							
Dec. 23	N,E	i	14 54 30	...	...	...	Feeble. Felt at Srinagar.
	N,E	i	15 3 46	...	...	...	
	N,E	f	16 2 ...	...	...	...	
Dec. 24	N,E	i	12 43 52	...	...	...	Feeble. Distant.
	N	Mn	14 6 47	15	4	...	
	E	Mn	2 58	16	6	...	
	N,E	F	15 13 ...	...	...	...	
Dec. 26	N,E	e	20 25 ...	...	...	...	Feeble. Distant.
	N,E	f	21 41 ...	...	...	...	
Dec. 27	N,E	e	19 12 ...	...	...	...	Feeble. Near.
	N,E	f	30 ...	...	...	...	
Dec. 28	N,E	iP	2 41 47	...	...	3490	Great. Epc : North Sumatra. O : 2h. 35m. 24s. G. M. T.
	N,E	PR_1	42 37	...	...	...	
	N,E	PR_2	43 ...	...	...	...	
	N,E	iS	47 2	...	...	...	
	N	SR_1	48 41	...	...	...	
	E	Mn	53 ...	25	12	...	
	N	F	8 8 ...	...	...	...	
	E	F	8 11 ...	...	...	...	
Dec. 28	N,E	eP	17 28 25	...	...	3380	Aftershock of the great shock of 28d. 2h. 41m. 47s. G.M.T.
	N,E	S	33 33	...	...	...	
	N,E	F	Mixed up with the following tremor.				
Dec. 28	N	Mn	19 8 35	...	...	...	Seismic activity.
	E	Mn	7 20	...	...	...	
Dec. 29	N,E	i	3 36 37	...	...	...	Slight.
	N,E	e	41 00	...	...	...	
	N,E	f	4 56 ...	...	...	...	
Dec. 29	N,E	iP	23 47 23	...	...	6345	Slight.
	N,E	S	55 23	...	...	...	
	N	PS	56 5	...	...	...	
	E	L	00 05 ...	...	...	...	
	N,E	F	1 59 ...	...	...	...	
Dec. 30	N,E	e	4 15 ...	...	...	...	Feeble. Distant.
	N,E	f	5 41 ...	...	...	...	
Dec. 31	N,E	e	1 36 ...	...	...	...	Feeble. Distant.
	N,E	f	2 29 ...	...	...	...	

S. C. ROY,

Meteorologist, Colaba Obrervatory, Bombay.

STATION—ALIPORE OBSERVATORY, CALCUTTA.

Lat. 22° 32′ N. *Long.* 88 °20′ E. *Height above M. S. L.* 7· slight 1 metre.

Lithologic Foundation : Alluvial.

Instrument :—Milne-Shaw Seismograph East—West (E) component.

INSTRUMENTAL CONSTANTS.

Component.	Steady mass (Kg.)	T. (sec.).	Vm	ℭ	Paper speed mm./min .
E-W	0·45	12	250	20 : 1	8

TABLE D_3.

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Jan. 1	E	eP	13 34 24	...	...	11,550	Slight.
		PR_1	38 34	...	...	...	L-waves poor.
		$\overline{ScPcS}$	44 52	...	...	...	
		SR_1	53 1	...	...	...	
		SR_2	57 24	...	...	...	
		F	15 38 ...	...	...	...	
Jan. 2	E	eP	22 25 43	...	...	820	Slight.
		S	27 8	...	...	...	
		Mn	29 15	8	20	...	
		F	55 ...	...	...	...	
Jan. 3	E	P	1 52 21	...	...	860	Great.
		S	53 49	...	...	...	
Jan. 3	E	e	3 11	...	...	...	Tremor.
Jan. 3	E	e	6 52 20	...	...	...	Do.
Jan. 3	E	e	12 49 6	...	...	...	Do.
Jan. 3	E	e	14 36 49	...	...	...	Do.
Jan. 3	E	e	17 7 28	...	...	...	Do.
Jan. 3	E	e	18 22 28	...	...	...	Do.
Jan. 3	E	e	22 39 40	...	...	...	Do.
Jan. 4	E	e	0 25 33	...	...	...	Do.
Jan. 4	E	e	5 14 44	...	...	...	Do.
Jan. 4	E	P	8 4 22	...	...	760	Slight.
		S	5 42	...	...	...	
		L	6 22	...	...	...	
		F	31 ...	...	...	...	
Jan. 4	E	e	10 31 12	...	...	...	Tremor.
Jan. 4	E	P	14 50 52	...	...	6,030	Moderate.
	...	S	58 32	...	...	...	
		SR_2	15 2 16	...	...	...	
		L	7 54	...	...	...	
		Mn	13 42	14	23	...	
		F	Masked by microseisms.				
Jan. 4	E	P	16 29 38	...	...	5,940	Slight.
		S	37 10	...	...	...	
		L	46 30	...	...	...	
		Mn	51 57	15	17	...	
		F	17 51 ...	...	...	...	
Jan. 4	E	e	17 53 38	...	...	...	Tremor.
Jan. 4	E	e	21 52 41	...	...	...	Do.
Jan. 4	E	e	23 50 56	...	...	...	Do.
Jan. 5	E	e	10 18 47	...	...	...	Slight.
		i	21 35	...	...	...	
Jan. 5	E	e	16 29 32	...	...	...	Tremor.
Jan. 6	E	P	7 12 24	...	...	800	Slight.
		S	13 47	...	...	...	
		L	14 44	...	...	...	
		Mn	16 10	5	18	...	
		F	41 0	...	...	...	
Jan. 6	E	P	11 20 0	...	...	820	Slight.
		S	21 25	...	...	...	
		eL	22 9	...	...	...	
		F	47 ...	...	...	...	
Jan. 6	E	P	17 57 5	...	...	810	Slight.
		S	58 30	...	...	...	
		L	59 14	...	...	...	
		Mn	18 0 44	8	18	...	
		F	16 ...	...	...	...	
Jan. 7	E	P	2 50 30	...	...	440	Slight.
		S	51 17	...	...	...	
		L	51 34	...	...	...	
		F	3 6 ...	...	...	...	
Jan. 8	E	e	13 2 29	...	...	...	Tremor.
Jan. 9	E	e	4 14 0	...	...	...	Do.
Jan. 10	E	e	11 25 38	...	...	...	Do.

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Jan. 11	E	eP	0 14 28	...	...	3,265	Slight. Beginning uncertain.
		S	19 29	...	...	...	
		Mn	29 49	14	10	...	
		F	1 0 ...	...	...	...	
Jan. 11	E	e	21 16 40	...	...	...	Tremor.
Jan. 12	E	P (?)	4 4 52	...	...	360	Slight.
		$\overline{P}$ (?)	5 2	...	...	...	
		F	9 ...	...	...	...	
Jan. 14	E	e	22 30 46	...	...	...	Tremor.
Jan. 16	E	e	6 20 57	...	...	...	Do.
Jan. 17	E	P	2 21 43	...	...	...	Slight. Beginning uncertain due to microseisms.
		S (?)	31 35	...	...	...	
		F	Mixed with microseisms.				
Jan. 17	E	e	17 25 4	...	...	...	Tremor.
Jan. 18	E	i	2 20 14	...	...	...	Slight. i probably S.
		Mn	27 24	...	...	...	
		F	Mixed up with microseisms.				
Jan 18	E	P	17 20 34	...	...	4,920	Slight.
		PR_1	22 10	...	...	...	
		S (?)	28 4	...	...	...	
		Mn	37 15	14	13	...	
		F	18 8 ...	...	...	...	
Jan. 18	E	e	20 57 14	...	...	...	Tremor.
Jan. 19	E	e	13 37 16	...	...	...	Do.
Jan. 22	E	P	15 6 18	...	...	6,060	Slight.
		PR_1	8 22	...	...	...	
		PR_2	9 21	...	...	...	
		S	14 1	...	...	...	
		F	58 ...	...	...	...	
Jan. 22	E	P	23 40 19	...	...	350	Slight.
		S	40 54	...	...	...	
		L	41 13	...	...	...	
		F	50 ...	...	...	...	
Jan. 23	N,E	P	7 36 18	...	...	8,430	Moderate (Omori-Ewing seismograms).
	N,E	S	7 46 4	...	...	...	
Jan. 25	E	e	1 27 52	...	...	...	Tremor.
Jan. 26	E	e	18 16 47	...	...	...	Do.
Jan. 27	E	e	23 10 54	...	...	...	Do.
Jan. 30	E	e	0 45 41	...	...	...	Do.
Jan. 31	E	P (?)	12 2 50	...	...	550	Slight.
		P	3 10	...	...	...	
		S	3 50	...	...	...	
		F	33 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.		△	Remarks.
1935.			H. M. S.	Sec.	μ	(Km.)	
Jan. 31	E	P	17 58 21	...	...	9,270	Slight.
		S	18 8 44	...	...	...	
		SR_1	14 22	...	...	...	
		F	19 39 ...	...	...	...	
Feb. 2	E	e	15 33 9				Tremors.
Feb. 3	E	P	2 15 9	...	...	2,180	Moderate.
		S	18 49	...	...	...	
		SR_1	19 29	...	...	...	
		L	20 24	...	...	...	
		Mn	22 19	6	31	...	
		F	51 ...	...	...	...	
Feb. 3	E	P	16 37 7	...	...	3,650	Slight.
		S	42 32	...	...	...	
		L	46 29	...	...	...	
		F	17 26 ...	...	...	...	
Feb. 7	E	e	17 37 19	...	...	...	Tremors.
Feb. 9	E	eP	19 26 0	...	...	3,335	Slight.
		S	31 5	...	...		
		Mn	39 38	18	64	...	
		F	20 24 ...	...	...		
Feb. 10	E	e	20 20 49	...	...	...	Tremors.
Feb. 17	E	e	16 27 18	...	...	...	Do.
Feb. 19	E	eP	20 18 48	...	...	5,850	Slight.
		S	26 18	...	...	...	
		SR_1	30 1	...	...	...	
		Mn	39 38	14	3	...	
		F	54 ...	...	...	...	
Feb. 21	E	eP	18 45 32	...	...	1,230	Slight.
		S	47 44	...	...	...	
		L	48 30	...	...	...	
Feb 22	E	eP	9 7 5	...	...	3,050	Slight.
		S	11 48	...	...	...	
		SR_1	13 15	...		...	
		L	14 47	...	...	...	
		Mn	17 17	10	12	...	
		F	50 ...	...	...	...	
Feb. 22	E	P	17 17 22	...	...	7,920	Great.
		S	26 42	...	...	...	
		SR_1	31 29	...	...	...	
		SR_2	34 12	...	...	...	
		L	40 46	...	...	...	
		Mn	47 35	18	127	...	
		F	20 49 ...	...	...	...	
Feb. 23	E	e	21 8 16	...	...	...	Tremors.

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Feb. 25	E	P	3 1 3	3	...	5,980	Slight.
		S	8 42	5	...	...	
		PS	9 15	5	...	...	
		SR_1	12 9	6	...	...	
		F	Mixed up with microseisms.				
Mar. 3	E	P	22 49 44	...	...	1,710	Slight.
		P*	50 36	...	...	...	
		S	53 44	...	...	...	
		F	23 19 ...	...	...	...	
Mar. 4	E		16 18 43	...	...	1,680	Slight.
		P*	19 38	...	...	...	
		S	21 40	...	...	...	
		F	53 ...	...	...	...	
Mar. 5	E	e	3 34 50	...	...	...	Tremors.
		F	46 ...	...	...	...	
Mar. 5	E	e	10 34 23	...	...	...	Slight.
		i	40 55	...	..	...	
		Mn	48 51	12	38	...	
Mar. 5	E	P	22 18 21	...	...	1,080	Moderate.
		S	20 13	...	...	...	
		L	21 3	...	...	...	
		Mn	22 53	8	196	...	
		F	23 56 ...	...	...	...	
Mar. 6	E	e	3 58 12	...	...	...	Tremors.
		F	4 16 ...	...	...	...	
Mar. 9	E	P	3 23 21	...	...	670	Slight.
		S	24 36	...	...	...	
		F	46 ...	...	...	...	
Mar. 11	E	e	11 41 37	...	...	...	Tremors.
		Mn	47 41	...	...	...	
		F	12 13 ...	...	...	...	
Mar. 13	E	P	3 16 26	2	...	610	Moderate.
		S	17 32	3	...	...	
		L	17 53	4	...	...	
		F	39 ...	...	...	...	
Mar. 14	E	e	9 19 31	...	...	...	Tremors.
Mar. 15	E	eP	10 36 24	...	...	1,078	Slight.
		S	38 23	...	...	...	
		L	38 55	...	...	...	
		F	11 2 ...	...	...	...	
Mar. 16	E	e	7 58 44	...	...	...	Tremors.
Mar. 16	E	e	9 34 17	...	...	...	Do.
Mar. 17	E	e	20 24 40	...	...	...	Do.
Mar. 18	E	e	9 52 8	...	...	...	Do.

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude	△	Remarks.
1935.			H. M. S.	Sec.	μ.	Kms.	
Mar. 21	E	P	23 8 45	4	...	8,190	Slight
		S	18 19	6	...	...	
		L	32 43	10	...	...	
		M	38 17	15	14	...	
Mar. 21	E	P	0 4 36	?	...	150	Data from Omori-Ewing E.W. Comp. Moderate. Felt locally.
		S	5 8	2	...	...	
		L	5 19	3	...	...	
		F	41 ...	...	...	...	
Mar. 24	E	e	0 6 16	2	...	...	Slight.
		i	8 31	3	...	...	
		F	31 ...	...	...	...	
Mar. 28	E	e	23 34 46	...	...	...	Tremors.
Mar. 29	E	$\frac{PR_1}{ScPcS}$	12 42 42	...	...	11,450	Slight.
			49 11	...	...	...	
		L	13 28 5	...	...	...	
		Mn	40 25	20	17	...	
		F	15 10 ...	..	...	...	
Mar. 30	E	e	17 43 12	...	...	...	Tremors.
		F	51 ...	...	...	...	
Mar. 30	E	e	20 47 7	...	...	...	Tremors.
		F	21 8 ...	...	...	...	
Mar. 30	E	P	21 28 24	...	...	5,170	Slight.
		S	35 17	...	...	...	
		SR_1	38 23	...	...	...	
		L	42 38	...	...	...	
		Mn	48 50	16	20	...	
		F	23 2 ...	...	...	...	
Apr. 3	E	eP	6 52 44	...	...	3,140	Slight.
		S	57 37	...	...	...	
		L	7 0 48	...	...	...	
Apr. 3	E	P	11 16 28	...	...	2,100	Slight.
		S	20 2	...	...	...	
		L	21 23	8	...	...	
		F	12 17 ...	...	...	...	
Apr. 3	E	e	12 47 39	...	...	...	Tremor.
Apr. 11	E	eP	1 20 40	...	...	1,180	Moderate. Beginning doubtful.
		S	22 50	...	...	...	
		Mn	28 42	10	48	...	
Apr. 11	E	eP	4 31 44	...	...	550	Slight.
		S	32 44	...	...	...	
		L	33 4	...	...	...	
		F	54 ...	...	...	...	
Apr. 11	E	P	23 21 21	...	...	3,790	Moderate.
		S	26 56	...	...	...	
		SR_1	26 51	...	...	...	
		L	31 14	...	...	...	
		Mn	39 27	8	84	...	

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks
1935.			H. M. S.	Sec.	μ	Km.	
Apr. 12	E	e	1 19 20	...	...	...	Tremor.
Apr. 12	E	P	12 51 39	...	...	3,755	Slight.
		S	57 11	...	...	...	
		SR_1	58 56	...	...	...	
		L	13 1 24	...	...	...	
		Mn	7 44	10	17	...	
		F	48 ...	...	...	...	
Apr. 12	E	eP	22 38 57	...	...	3,790	Slight.
		S	44 31	...	...	...	Beginning uncertain due to microseisms.
		SR_1	46 21	...	...	...	
		Mn	53 53	8	8	...	
		F	23 27 ...	...	...	...	
Apr. 18	E	P	15 1 36	...	...	570	Slight.
		S	2 28	...	...	...	
		L	3 7	...	...	...	
		M	3 37	8	51	...	
		F	26 ...	...	...	...	
Apr. 19	E	P	15 34 14	...	...	7,110	Great.
		PR_1	36 41	...	...	...	
		PR_2	37 56	...	...	...	
		S	42 58	...	...	...	
		SR	47 23	...	...	...	
		SR_2	49 39	...	...	...	
		L	55 3	...	...	...	
		M	16 2 11	16	117	...	
Apr. 20	E	P	5 21 32	...	...	6,950	Slight.
		S	30 7	...	...	...	
		SR_1	34 26	...	...	...	
		L	41 10	...	...	...	
		F	6 59 ...	...	...	...	
Apr. 20	E	P	22 8 7	...	...	3,410	Great.
		PR_2	9 16	...	...	...	
		S	13 17	...	...	...	
		L	17 1	...	...	...	
		Mn	23 1	25	123	...	
		F	0 43 ...	...	...	...	
Apr. 21	E	eP	7 33 56	...	...	3,410	Slight.
		S	39 5	...	...	...	
		SR_1	40 40	...	...	...	
		eL	42 46	...	...	...	
		F	8 58 ...	...	...	...	
Apr. 21	E	e	19 24 56	...	...	...	Tremor.
Apr. 23	E	P	16 47 7	...	...	530	Felt locally.
		S	48 4	...	...	...	
		F	17 46 ...	...	...	...	
Apr. 24	E	P	15 58 6	...	...	2,990	Slight.
		PR_1	59 0	...	...	...	
		S	16 2 45	...	...	...	
		L	5 39	...	...	...	
		F	17 30 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Apr. 24	E	e	17 51 43	...	...	...	Tremor.
		f	18 19 ...	...	...	...	
Apr. 26	E	e	5 41 15	...	...	...	Tremor.
May 1	E	eP	10 32 33	...	...	4,520	Slight.
		PR_1	34 31	...	...	...	
		S	38 52	...	...	...	
		SR_1	42 12	...	...	...	
		eL	44 40	...	...	...	
May 4	E	eP	23 8 12	...	...	3,980	Slight.
		S	13 58	...	...	...	
		L	18 41	...	...	...	
		M	21 44	10	17	...	
		F	0 10 ...	...	...	...	
May 7	E	eP	6 3 8	...	...	4,220	Slight.
		S	9 9	...	...	...	
		F	50 ...	...	...	...	
May 10	E	eP	17 6 25	...	...	2,650	Slight.
		S	10 43	...	...	...	Beginning doubtful.
		L	13 5	...	...	...	
		M	15 11	8	19	...	
		F	45 ...	...	...	...	
May 12	E	eP	5 25 2	...	...	2,210	Slight.
		S	28 46	...	...	...	
		L	30 13	...	...	...	
		M	32 0	4	16	...	
		F	6 1 ...	...	...	...	
May 13	E	P	19 56 28	...	...	1,190	Moderate.
		S	58 37	...	...	...	
		SR_1	58 57	...	...	...	
		L	59 17	...	...	...	
		Mn	20 3 57	6	131	...	
		F	21 17 ...	...	...	...	
May 14	E	$\frac{PR_1}{ScPcS}$	23 43 27	5	...	13,010	Slight.
		PS	48 43	6	...	...	△from (PS—PR_1.
		SR_1	53 13	8	...	...	
		F	59 44	10	...	...	
May 15	E	P	1 27 ...	...	...	...	
		S	2 6 6	...	...	2,135	Moderate.
		L	9 42	...	...	...	
May 16	E	P	11 17	...	...	...	
		S	17 29 21	...	...	2,410	Slight.
		L	33 20	...	...	...	
		Mn	35 14	...	...	...	
		F	38 59	10	29	...	
May 16	E	e	18 14 ...	...	...	...	
		F	21 3 56	...	...	...	Tremor.
			22 54 ...	...	...	...	

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
1935			H. M. S.	Sec.	μ	Km.	
May 20	E	e	5 29 23	...	...	...	Tremor.
May 21	N, E	P	4 24 5	...	...	600	Slight.
	N, E	S	25 19	...	...	...	Data of Omori-Ewing components.
	N, E	L	25 41	...	...	...	
	N	F	55 ...	...	...	...	
	E	F	52 ...	...	...	...	
May 23	E	e	4 29 35	...	...	...	Slight. Near.
		e	30 2	...	...	...	
May 24	E	P	5 43 46	...	...	4,020	Moderate.
		PR_2	45 21	...	...	...	
		S	49 36	...	...	...	
		L	54 18	...	...	...	
		Mn	6 13 18	12	71	...	
May 25	E	eP	0 15 8	...	...	4,000	Slight.
		S	20 55	...	...	...	
		L	25 40	...	...	...	
May 26	E	P	22 11 7	...	...	4,190	Slight.
		PR_2	12 50	...	...	...	
		S	17 4	...	...	...	
		SR_2	19 56	...	...	...	
		eL	22 15	...	...	...	
		Mn	33 33	14	28	...	
		F	23 42 ...	...	...	...	
May 29	E	e	19 54 29	...	...	...	Tremor.
		F	20 34 ...	...	...	...	
May 30	E	P	21 37 36	...	...	2,370	Very Great. Destructive in Baluchistan.
		PR_2	37 59	...	...	...	
		S	41 31	...	...	...	
May 30	N,E	P	21 37 40	...	...	2,370	Do.
	N,E	S	41 35	...	...	...	Omori-Ewing data.
	N	F	23 36 ...	...	...	...	
May 31	E	eP	2 8 21	..	...	2,370	Slight.
		S	12 16	...	...	...	
		L	14 1	...	...	...	
		Mn	14 56	8	43	...	
May 31	E	e	8 25 51	...	...	...	Tremor.
May 31	E	eP	17 16 56	...	...	2,370	Slight.
		S	20 51	...	...		
		L	22 36	...	...		
		Mn	28 56	8	30	..	
June 1	E	P	4 34 55	..	...	2,370	Slight.
		S	38 50	...	...	...	
		L	40 0	...	...	...	
		M	41 0	8	34	...	

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
June 2	E	P	9 21 10	..	...	2,370	Moderate.
		S	25 5	..	...	...	
		L	26 50	...	...	...	
		Mn	28 9	8	172	...	
June 18	E	e	16 50 18	...	...	...	Tremor.
June 18	E	eP	22 34 53	...	...	4,055	Slight.
		iS	40 44	...	...	...	
June 22	E	eP	15 55 6	...	...	6,010	Slight.
		S	16 2 47	...	...	...	
		SR_2	6 30	..	...	...	
		L	11 59	...	...	...	
		Mn	20 7	15	18	...	
June 24	E	P	23 35 45	...	...	9,670	Moderate. L-waves poor (Deep focus) Maximum motion near ScPcS Slight.
		ScPcS	45 58	...	...	...	
June 25	E	eP	12 43 16	...	...	5,870	P uncertain due to microseisms.
		S	50 49	...	...	...	
		Mn	13 11 41	13	16	...	
June 29	E	e	7 12 0	...	...	...	Tremor.
		Mn	8 10 37	...	...	...	
		F	9 8 ...	...	...	...	
June 30	E	e	6 48 7	...	...	...	Tremor.
June 30	E	e	9 18 15	...	...	...	Tremor.
June 30	E	e	9 46 54	...	...	...	Slight. Near.
		i	47 53	...	...	...	
		F	58 ...	...	...	...	
July 4	E	P	2 49 57	...	...	400	Slight.
		P	50 18	...	...	...	
		S	50 40	...	...	...	
		Mn	52 35	4	36	...	
		F	3 5 ...	...	...	...	
July 5	E	P	17 58 23	...	...	2,610	Moderate.
		S	18 2 38	...	...	...	
		L	4 43	...	...	...	
		M	6 43	6	71	...	
		F	49 ...	...	...	...	
July 7	E	eP	13 29 16	...	...	3,290	Moderate.
		S	34 19	...	...	...	
		L	39 6	...	...	...	
		Mn	48 51	10	21	...	
		F	14 10 ...	...	...	...	
July 9	E	e	5 6 24	...	...	...	Tremor.
July 9	E	e	13 11 28	...	...	...	Do.
July 10		e	20 39 45	...	...	...	Do.
July 11	E	e	8 49 53	...	...	...	Do.

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.		1935.			H. M. S.	Sec.	μ	Km.	
July 12	E	e	1 50 11	...	...	...	Tremor.	Aug. 1	E	eP	14 13 44	...	...	4,260	Slight.
		Mn	54 37	...	...	...				PR_2	15 24	...	...	...	
July 15	E	e	14 36 8	...	...	...	Tremor.			S	19 48	...	...	...	
										SR_1	22 6	...	...	...	
July 16	E	P	16 25 11	...	...	3,330	Moderate.			SR_2	22 42	...	...	...	
		S	30 16	...	...	...				F	15 36 0	...	...	...	
		L	33 45	...	...	...									
		Mn	39 38	7	34	...		Aug. 3	N,E	P	1 14 35	...	...	2,300	Great.
		F	17 45 ...	...	...	...			N,E	S	18 23	...	...	...	
July 17	E	e	11 23 4	...	...	...	Tremor.		N,E	L	20 9	...	...	...	
		Mn	48 29	...	...	...		Aug. 3	E	e	7 51 36	...	...	...	Tremor.
		F	12 53 ...	...	...	...		Aug. 3	E	P	11 54 27	...	...	5,270	Slight.
July 19	E	P	0 58 29	...	...	5,510	Moderate.			S	12 1 27	...	...	...	
		S	1 5 42	...	...	...				L	8 50	...	...	...	
		Mn	21 21	20	52	...				F	30 ...	...	...	...	
		F	2 24 ...	...	...	...		Aug. 3	E	P	13 25 34	...	...	1,060	Slight.
July 23	E	e	4 4 56	...	...	...	Tremor.			S	27 26	...	...	...	
		Mn	15 1	...	...	...				L	28 10	...	...	...	
										M	30 10	10	26	...	
July 26	E	eP	9 16 47	...	...	1,060	Slight.			F	55 0	...	...	...	
		S	18 39	...	...	...									
		L	19 25	...	...	...		Aug. 3	E	P	14 14 6	...	...	930	Slight.
		M	21 19	8	19	...				S	15 46	...	...	...	
		F	36 ...	...	...	...				L	16 21	...	...	...	
										F	37 ...	...	...	...	
July 26	E	eP	10 35 20	...	...	2,290	Moderate.								
		PR_2	35 49	...	...	...		Aug. 11	E	e	9 1 41	...	...	...	Tremor.
		S	39 8	...	...	...				F	21 ...	...	...	...	
		L	40 50	...	...	...		Aug. 17	E	P	1 57 56	...	...	10,300	Moderate.
		Mn	43 27	10	186	...				RP_1	2 1 36	...	...	...	L—waves poor.
		F	11 55 ...	...	...	...				ScPcS	8 21	...	...	...	
										PS	10 12	...	...	...	
July 28	E	P	5 28 27	...	...	2,210	Slight.			Mn	32 36	20	64	...	
		S	32 9	...	...	...				F	4 45 ...	...	...	...	
		L	33 49	...	...	...		Aug. 17	E	e	13 50 26	...	...	...	Tremor.
		F	58 ...	...	...	...									
								Aug. 17	E	e	20 38 30	...	...	...	Tremor.
July 29	E	eP	7 51 20	...	...	12,650	Moderate.								
		PR_1	55 57	...	...	...		Aug. 23	E	P	14 3 59	...	...	3,190	Moderate.
		PR_2	58 27	...	...	...				PR_1	4 42	...	...	...	
		ScPcS	8 1 50	...	...	...				S	8 54	...	...	...	
		PS	4 25	...	...	...				eL	12 10	...	...	...	
		PPS	5 27	...	...	...				Mn	25 57	14	45	...	
										F	16 3 ...	...	...	...	
July 29	E	eP	23 21 26	...	...	2,370	Slight.								
		S	25 23	...	...	...		Aug. 23	E	e	18 36 39	...	...	...	Slight.
		SR_1	26 10	...	...	...				S (?)	37 22	...	...	...	
		L	27 10	...	...	...				F	18 48 ...	...	...	...	
								Aug. 25	E	P	5 21 33	...	...	6,350	Slight.
July 30	E	eP	5 56 45	...	...	4,570	Slight.			S	29 33	...	...	...	
		PR_1	58 15	...	...	...				L	39 18	...	...	...	
		PR_2	58 49	...	...	...				Mn	47 48	20	23	...	
		S	6 3 5	...	...	...				F	6 48 ...	...	...	...	
		eL	9 13	...	...	...									

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Aug. 26		E	16 46 38	...	...	...	Tremor.
		F	17 22 0	...	...	...	
Aug. 27	E	e	5 36 50	...	...	...	Tremor.
		F	6 10 ...	...	...	...	
Aug. 31	E	e	17 31 17	...	...	...	Slight.
		i	43 33	...	...	...	
		Mn	18 17 58	16	8	...	
		F	44 ...	...	...	...	
Sept. 4	E	P	1 44 0	...	...	3,270	Great.
		PR_2	45 8	...	...	...	
		S	49 1	...	...	...	
		SR_1	50 21	...	...	...	
		L	52 10	...	...	...	
		Mn	56 46	10	145	...	
		F	3 7 ...	...	...	...	
Sept. 4	E	e	3 35 36	...	...	...	Slight.
		Mn	47 56	20	58	...	
Sept. 5	E	P	12 36 48	...	...	500	Slight.
		S	37 41	...	...	...	
		L	38 2	...	...	...	
		Mn	13 38 22	3	30	...	
		F	55 ...	...	...	...	
Sept. 9	E	P	6 26 56	...	...	5,950	Moderate.
		S	34 33	...	...	...	
		L	43 26	...	...	...	
		Mn	47 19	15	57	...	
Sept. 11	E	P	14 13 11	...	...	5,670	Moderate.
		S	20 33	...	...	...	
		L	28 50	...	...	...	
		Mn	38 1	12	41	...	
		F	17 39 ...	...	...	...	
Sept. 15	E	e	11 28 14	...	...	...	Slight.
		i	35 57	...	...	...	
		F	12 25 ...	...	...	...	
Sept. 15	E	P_1	14 30 7	...	...	17,020	Slight.
		PR_1	33 56	...	...	...	
		PR_2	37 23	...	...	...	
		PPS	47 17	...	...	...	
		SR_2	59 24	...	...	...	
		Mn	34 34	18	14	...	
		F	16 45 ...	...	...	...	
Sept. 18	E	e	8 39 46	...	...	...	Tremor.
Sept. 20	E	P	1 56 34	...	...	6,620	Great.
		S	2 4 50	...	...	...	
		L	15 57	...	...	...	
		Mn	19 24	15	286	...	
Sept. 20	E	P	5 33 6	...	...	6,650	Moderate.
		S	41 24	...	...	...	
		L	51 59	...	...	...	
Sept. 20	E	P	21 14 14	...	...	6,750	Slight.
		S	22 38	...	...	...	
		L	33 22	...	...	...	
Sept. 23	E	P	9 28 19	...	...	6,600	Slight.
		PR_1	30 36	...	...	...	
		S	36 34	...	...	...	
		SR_1	42 42	...	...	...	
		L	46 55	...	...	...	
Sept. 24	E	P	5 11 4	2	...	6,440	Slight.
		S	19 9	...	...	...	
Sept. 24	E	P	22 36 52	...	...	6,390	Slight.
		S	44 55	...	...	...	
		eL	54 55	...	...	...	
		F	23 50 ...	...	...	...	
Sept. 25	E	P	10 29 43	...	...	6,450	Slight.
		S	37 48	...	...	...	
		eL	48 4	...	...	...	
Sept. 29	E	P	6 44 23	...	...	2,120	Slight.
		S	47 58	...	...	...	
		L	49 23	...	...	...	
		Mn	51 28	7	8	...	
		F	7 10 ...	...	...	...	
Oct. 1	E	P	6 14 54	...	...	1,580	Slight.
		S	17 41	...	...	...	
		SR_1	18 7	...	...	...	
		L	18 31	...	...	...	
		Mn	20 1	8	65	...	
		F	41 ...	...	...	...	
Oct. 2	E	P	5 42 5	...	...	5,620	Slight.
		S	49 25	...	...	...	
		PS	50 0	...	...	...	
		SR_1	52 53	...	...	...	
		L	57 33	...	...	...	
		F	6 43 ...	...	...	...	
Oct. 4	E	i	5 22 25	...	...	...	Slight. L-waves poor.
		f	59 ...	...	...	...	
Oct. 4	E	P	14 55 33	...	...	2,370	Slight.
		PR_1	55 56	...	...	...	
		S	59 28	...	...	...	
		L	15 1 13	5	19	...	
		Mn	2 8	5	...	...	
		F	46 ...	...	...	...	
Oct. 6	E	e	7 27 21	...	...	...	Tremor.
		f	37 ...	...	...	...	

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Oct. 6	E	P	14 48 24	...	...	1,820	Slight.
		S	51 34	...	...	...	
		SR_1	52 5	...	...	...	
		L	52 38	...	...	...	
		Mn	54 3	10	36	...	
		F	15 22 ...	...	...	...	
Oct. 8	E	P	9 24 10	...	...	2,430	Moderate.
		PR_1	24 34	...	...	...	
		S	28 11	...	...	...	
		SR_1	29 0	...	...	...	
		L	30 6	...	...	...	
		Mn	33 33	6	71	...	
		F	10 4 ...	...	...	...	
Oct. 10	E	e	20 15 21	...	...	...	Tremor.
		f	21 0 ...	...	...	...	
Oct. 11	E	eP	4 24 56	...	...	2,110	Slight
		sP	25 45	...	...	...	L—waves poor. Deep focus (△from Brunner chart).
		S	28 21	...	...	...	
		F	58 ...	...	...	...	
Oct. 11	E	P	22 26 8	...	...	6,450	Slight.
		PR_1	28 21	...	...	...	
		S	34 14	...	...	...	
		L	44 21	9	...	...	
		F	0 12 ...	...	...	...	
Oct. 12	E	P	16 54 8	...	...	5,490	Moderate.
		PR_1	56 19	...	...	...	
		S	17 1 20	...	...	...	
		PS	1 55	...	...	...	
		eL	10 25	7	...	...	
		Mn	18 40	15	89	...	
		F	19 47 ...	...	...	...	
Oct. 13	E	P	2 6 19	...	...	5,570	Slight.
		S	13 35	...	...	...	
		eL	21 43	8	...	...	
		F	Lost in microseisms.				
Oct. 14	E	P	20 29 7	...	...	,900	Slight.
		S	32 24	...	...	...	
		L	33 32	5	...	...	
		F	58 ...	...	...	...	
Oct. 17	E	P	14 37 28	...	...	2,350	Slight.
		PR_1	37 51	...	...	...	
		S	41 21	...	...	...	
		L	43 6	...	...	...	
		Mn	49 23	16	24	...	
		F	15 32 ...	...	...	...	
1935.			H. M. S.	Sec.	μ	Km.	
Oct. 18	E	P	0 20 50	...	...	5,550	Moderate.
		S	28 5	...	...	...	
		L	36 11	...	...	...	
		Mn	45 11	15	79	...	
		F	Lost in microseisms.				
Oct. 18	E	P	11 14 33	...	...	[5,590	Moderate.
		PR_1	16 25	...	...	...	
		S	21 51	...	...	...	
		L	30 0	...	...	...	
		Mn	37 51	12	27	...	
		F	13 12 ...	...	...	...	
Oct. 18	E	P	15 2 48	...	...	5,600	Slight.
		S	10 6	...	...	...	
		L	18 15	...	...	...	
		Mn	27 40	13	21	...	
		F	16 41 ...	...	...	...	
Oct. 18	E	P	22 0 20	...	...	5,650	Slight.
		S	7 42	...	...	...	
		F	22 54 ...	...	...	...	
Oct. 19	E	e	1 22 47	...	...	...	Tremor
Oct. 19	E	e	2 52 41	...	...	...	Tremor.
Oct. 19	E	P	20 25 20	...	...	400	Slight.
		S	26 1	...	...	...	
		L	26 19	4	...	...	
		F	45 ...	...	...	...	
Oct. 20	E	P	4 57 22	...	..	3,070	Slight.
		S	5 2 10	...	...	...	
		L	5 8	8	...	...	
		F	6 6 ...	...	...	...	
Oct. 26	E	i	8 41 7	...	...	...	Slight. Very near L-waves poor.
		i	42 18	...	...	...	
		F	Lost in microseisms.				
Oct. 26	E	i	21 25 59	...	...	...	Slight. Probably S.
		F	57 ...	...	...	...	
Oct. 27	E	e	6 55 42	...	...	...	Tremor.
Oct. 28	E	i	12 15 18	...	...	...	Slight.
		F	46 ...	...	...	...	
Oct. 30	E	P	2 34 40	...	...	780	Slight.
		P (?)	35 26	...	...	...	
		S	36 00	...	...	...	
		Mn	38 5	7	21	...	
		F	Lost in microseism.				
Oct. 31	E	e	19 34 6	...	...	...	Tremor.
		F	20 2 ...	...	...	...	

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Oct. 31	E	e	23 4 19	...	...	...	Tremor.
		F	47 ...	...	...	...	
Nov. 1	E	e	6 22 41	...	...	...	Tremor.
		F	7 35 ...	...	...	...	
Nov. 1	E	P	16 25 24	...	...	1,590	Great.
		S	28 12	...	...	...	
		L	29 12	10	...	...	
		Mn	33 42	15	682	...	
		F	18 35 ...	...	...	...	
Nov. 1	E	e	21 0 10	...	...	...	Tremor.
		F	20 ...	...	...	...	
Nov. 3	E	e	16 37 32	...	...	...	Slight.
		Mn	42 42	7	...	...	
		F	Lost in microseism.				
Nov. 5	E	P	21 5 18	...	...	3,860	Slight.
		PR_1	6 45	...	...	...	
		S	10 55	...	...	...	
		L	15 20	7	...	...	
		F	22 5 ...	...	...	...	
Nov. 12	E	e	18 51 20	...	...	...	Tremor.
		F	19 9 ...	...	...	...	
Nov. 12	E	P	21 32 58	...	...	2,370	Moderate.
		S	36 53	...	...	...	
		L	38 41	...	...	...	
		Mn	44 57	15	43	...	
		F	22 33 ...	...	...	...	
Nov. 14	E	P	20 7 47	...	...	7,350	Slight.
		S	16 42	...	...	...	
		SR_1	21 12	...	...	...	
		F	21 1 ...	...	...	...	
Nov. 16	E	eP	5 57 30	...	...	3,970	Slight.
		PR_2	59 2	...	...	...	
		S	6 3 15	...	...	...	
		eL	7 59	...	...	...	
Nov. 17	E	P	18 16 20	...	...	610	Slight.
		S	17 23	...	...	...	
		eL	17 44	...	...	...	
		F	18 37 ...	...	...	...	
Nov. 22	E	P	12 1 55	...	...	1,000	Slight.
		S	3 42	...	...	...	
		L	4 18	...	...	...	
		F	21 ...	...	...	...	
Nov. 23	E	e	9 58 47	...	...	...	Slight.
		F	10 11 ...	...	...	...	
Nov. 25	E	P	10 7 10	...	...	1930	Moderate.
		PR_1	7 25	...	...	...	
		S	10 30	...	...	...	
		SR_1	11 4	...	...	...	
		L	11 44	...	...	...	
		Mn	25 27	10	183	...	
		F	12 52 ...	...	...	...	
Nov. 26	E	eP	0 37 26	...	...	550	Slight.
		S	38 26	...	...	...	
		L	38 46	5	...	...	
		F	1 2 ...	...	...	...	
Nov. 26	E	P	18 37 32	...	...	1,970	Slight.
		S	40 55	...	...	...	
		L	42 14	...	...	...	
		Mn	58 0	11	39	...	
		F	20 25 ...	...	...	...	
Nov. 29	E	e	19 39 3	...	...	...	Slight.
		e	41 12	...	...	...	
		F	20 2 ...	...	...	...	
Nov. 30	E	e	3 38 10	...	...	...	Tremor.
		Mn	53 37	...	...	...	
Nov. 30	E	e	4 55 49	...	...	...	Tremor.
		Mn	5 8 25	...	...	...	
		F	6 1 ...	...	...	...	
Nov. 30	E	eP	16 23 45	...	...	350	Slight.
		S	24 25	...	...	...	
		L	24 31	...	...	...	
		F	16 30 ...	...	...	...	
Nov. 30	E	P	16 32 20	...	...	430	Slight.
		S	33 8	...	...	...	
		eL	33 20	...	...	...	
		F	16 54 ...	...	...	...	
Dec. 1	E	eP	23 52 18	...	...	4,000	Slight.
		PR_2	53 51	...	...	...	
		S	58 4	...	...	...	
		SR_2	0 0 36	...	...	...	
		L	2 50	...	...	...	
		Mn	9 43	10	19	...	
		F	Lost in microseisms.				
Dec. 2	E	eP	16 49 48	...	...	4,010	Slight.
		S	55 36	...	...	...	
		L	17 0 38	...	...	...	
		Mn	7 11	14	16	...	
		F	18 7 ...	...	...	...	
Dec. 5	E	e	18 8 37	...	...	...	Tremor.
		Mn	43 29	20	17	...	
		F	Lost in microseisms.				

TABLE D_3—*concld.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Dec. 7	E	P	4 41 25	...	...	450	Slight.
		S	42 11	...	...	...	
		L	42 33	...	...	...	
		F	55 ...	...	...	...	
Dec. 9	E	e	16 6 2	...	...	...	Tremor.
		f	17 ...	...	...	...	
Dec. 14	E	eP	1 50 34	...	...	8,100	Slight.
		PR_2	54 54	...	...	...	
		S	2 0 4	...	...	...	
		SR_2	7 46	...	...	...	
		L	14 4	...	...	...	
		F	3 33 ...	...	...	...	
Dec. 14	E	i	12 55 53	...	...	...	Tremor.
		f	13 56 ...	...	...	...	
Dec. 14	E	P_1	22 24 59	...	...	16,370	Moderate.
		$\overline{ScPc}$ $\overline{PcS}$	34 59	...	...	...	
		$\overline{PS}$ $c\overline{PcS}$	38 37	...	...	...	Epc : 14° N, 94° W (U. S. C. G. S.)
		SR_1	47 26	...	...	...	
		L	23 11 37	...	...	...	
		Mn	31 12	25	97	...	
		F	0 56 ...	...	...	...	
Dec. 15	E	P	7 19 50	...	...	8,940	Great
		PP_1	24 38	...	...	...	Epc : 12° S, 161° E (U. S. C. G. S.)
		S	29 58	...	...	...	
		PS	30 40	...	...	...	Felt in Solomon Islands.
		F	11 0 ...	...	...	...	
Dec. 17	E	e	13 31 26	...	...	...	Tremor.
Dec. 17	E	P	19 24 28	...	...	3,720	Moderate.
		S	29 57	...	...	...	Epc : East of Formosa.
		L	34 11	...	...	...	
		Mn	39 59	20	56	...	
		F	21 52 ...	...	...	...	
Dec. 17	E	e	22 42 48	...	...	...	Tremor.
Dec. 18	E	P	7 14 22	...	...	1,710	Slight.
		S	17 22	...	...	...	
		L	18 22	...	...	...	
		Mn	20 1 7	46	...		
Dec. 18	E	Mn	8 16 40	...	...	...	Seismic activity, masked by microseisms.
Dec. 18	E	e	13 21 49	...	...	...	Tremor.
Dec. 18	E	eP	17 2 42	...	...	1,710	Slight.
		S	5 42	...	...	...	
		L	6 43	...	...	...	
		Mn	9 50	10	29	...	
		F	18 3 ...	...	...	...	
Dec. 18	E	e	21 15 28	...	...	...	Tremor.
		F	38 ...	...	...	...	
Dec. 19	E	e	9 40 43	...	...	...	Tremor.
Dec. 19	E	e	13 33 29	...	...	...	Slight, near.
		Mn	38 32	...	...	...	
		F	14 0 ...	...	...	...	
Dec. 19	E	e	21 31 20	...	...	...	Slight, near.
		Mn	34 40	...	...	...	
		F	21 57 ...	...	...	...	
Dec. 19	E	P	23 15 15	...	...	2,210	Slight.
		S	18 57	...	...	...	
		L	20 34	...	...	...	
		F	40 ...	...	...	...	
Dec. 20	E	P	18 48 56	...	...	8,630	Slight.
		S	58 51	...	...	...	
		SR_1	19 4 4	...	...	...	
		eL	14 15	...	...	...	
		F	21 0 ...	...	...	...	
Dec. 22	E	e	12 31 22	...	...	...	Tremor.
Dec. 22	E	e	20 39 36	...	...	...	Tremor.
		F	21 19 ...	...	...	...	
Dec. 23	E	e	5 22 22	...	...	...	Slight, near.
		Mn	25 35	...	...	...	
		F	41 ...	...	...	...	
Dec. 23	E	e	11 36 4	...	...	...	Tremor.
		f	50 ...	...	...	...	
Dec. 24	E	e	12 44 6	...	...	...	Slight, very distant.
		i	50 10	...	...	...	
		i	13 7 44	...	...	...	
		F	14 52 ...	...	...	...	
Dec. 28	E	P	2 40 43	...	...	2,720	Great.
		S	45 6	...	...	...	Epc: North Sumatra.
Dec. 28	E	P	17 27 27	...	...	2,670	Slight.
		S	31 48	...	...	...	Aftershock of the previous one.
		eL	34 2	...	...	...	
		F	18 32 ...	...	...	...	
Dec. 29	E	e	3 35 39	...	...	...	Slight.
		i	37 6	...	...	...	
		F	4 39 ...	...	...	...	
Dec. 29	E	P	23 45 59	...	...	5,110	Slight.
		S	52 50	...	...	...	Data from Omori-Ewing.
		L	59 56	...	...	...	
Dec. 30	E	eP	4 16 21	...	...	2,680	Slight.
		S	20 41	...	...	...	
		eL	22 56	...	...	...	
Dec. 30	E	e	16 4 58	...	...	...	Tremor.
		F	25 ...	...	...	...	
Dec. 31	E	e	1 41 4	...	...	...	Tremor.

S. N. SEN,

Meteorologist, Alipore Observatory, Calcutta.

STATION—SOLAR PHYSICS OBSERVATROY, KODAIKANAL.

Lat. 10° 13′ 50″N, *Long.* 77° 28′ 00″E.

Height above M. S. L. 2,343 m. *Lithologic Foundation* : Rock.

Instruments : Milne-Shaw Seismograph East-West (E) Component.

INSTRUMENTAL CONSTANTS.

Component.	Steady mass. (Kg.)	T. (sec.).	Vm	ε	Paper speed (mm/min.)
E-W	0·45	11·5	250	20 : 1	8

TABLE D. 4.

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Jan. 1	E	e	13 37 8	...	...	12,220	Beginning uncertain. Long waves poor.
		ScPcc	46 10	...	...	...	
		SR_1	55 37	...	...	...	
		F	16 21 ...	...	...	...	
Jan. 3	E	iP	1 55 12	...	...	2,565	
		iS	59 23	...	...	...	
		Mn	2 4 17	9	248	...	
		F	4 12 ...	...	...	...	
Jan. 3	E	e	6 11 27	...	...	...	Tremors.
		F	7 28 ...	...	...	...	
Jan. 4	E	e	0 25 18	...	...	...	Tremors.
		F	1 9 ...	...	...	...	
Jan. 4	E	e	8 10 6	...	...	...	Tremors.
		F	23 ...	...	...	...	
Jan. 4	E	e	10 34 12	...	...	...	Feeble shock.
		F	11 10 ...	...	...	...	
Jan. 4	E	eP	14 50 50	...	...	5,855	
		ePR_1	52 43	...	...	...	
		ePR_2	53 38	...	...	...	
		eS	58 23	...	...	...	
		PS	5 3 57	...	...	...	
		SR_1	15 1 56	...	...	...	
		SR_2	3 26	...	...	...	
		L	6 57	...	...	...	
		Mn	18 56	16	20	...	
		F	Mixed up with the following shock.				
Jan. 4	E	eP	16 29 24	...	...	6,110	
		PR_1	31 29	...	...	...	
		PR_2	32 29	...	...	...	
		eS	37 11	...	...	...	
		PS	37 40	...	...	...	
		SR_1	40 56	...	...	...	
		SR_2	42 41	...	...	...	
		L	46 6	...	...	...	
		Mn	57 43	16	16	...	
		F	19 19 ...	...	...	...	
Jan. 4	E	e	19 46 36	...	...	...	Tremors.
		F	20 12 ...	...	...	...	
Jan. 5	E	iP (?)	10 13 26	...	...	3,510	
		PR_1	14 31	...	...	...	
		iS	18 43	...	...	...	
		L	21 48	...	...	...	
		Mn	24 11	23	9	...	
		F	11 20 ...	...	...	...	
Jan. 5	E	e	16 22 48	...	...	...	Feeble shock.
		F	17 28 ...	...	...	...	
Jan. 6	E	e	7 15 22	...	...	...	Feeble shock.
		F	8 13 ...	...	...	...	
Jan. 10	E	e	11 31 35	...	...	...	
		Mn	36 4	11	3	...	
		F	12 6 ...	...	...	...	
Jan. 11	E	?	?	...	Feeble shock.		Time not estimable.
Jan. 13	E	e	15 52 23	...	...	...	
		F	16 3 ...	...	...	...	

TABLE D_4—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1935							
Jan. 17	E	eP	2 21 35	...	...	3,310	
		PR_1	22 22	...	...	...	
		S	26 39	...	...	...	
		SR_1	28 8	...	...	...	
		L	30 18	...	...	...	
		Mn	32 51	9	8	...	
		F	3 55 ...	...	...	...	
Jan. 18	E		No time marks.				Feeble shock.
Jan. 18	E	e	11 49 40	...	...	...	Tremors.
		F	12 16 ...	...	...	...	
Jan. 19	E	e	3 14 14	...	...	...	Feeble shock.
		F	36 ...	...	...	...	
Jan. 22	E	e	15 7 14	...	...	...	Tremors.
		F	50 ...	...	...	...	
Jan. 23	E	eP	7 37 22	...	...	9,755	
		PR_2	42 42	...	...	...	
		ScPcS	47 39	...	...	...	
		iS	48 6	...	...	...	
		PS	49 8	...	...	...	
		PPS	49 36	...	...	...	
		SR_1	54 10	...	...	...	
		SR_2	57 51	...	...	...	
		L	8 6 58	...	...	...	
		Mn	23 53	19	16	1·4	
		F	11 2 ...	...	...	...	
Jan. 31	E		No time marks.				Tremors.
Feb. 3	E	eP	2 16 18?	...	...	...	Time uncertain minute marks being irregular.
		PR_2	16 5?	...	...	...	
		eS	20 26?	...	...	...	
		L	22 33?	...	...	...	
		Mn	24 26?	8	19	...	
		F	5 14 ...	...	...	...	
Feb. 4	E	eP	7 54 36	...	...	3,690	
		iS	8 0 4	...	...	...	
		Mn	8 6 43	22	5	...	
		F	9 36 ...	...	...	...	
Feb. 5	E		Time not readable.				Feeble shock.
Feb. 5	E	e?	3 49 43	...	...	...	Feeble shock.
		F	4 22 ...	...	...	...	
Feb. 7	E		... ...			...	Feeble shock. Phases not clear.
Feb. ··	E	eP	19 27 48	...	...	4,835	Preliminary movements very feeble
		eS	34 23	...	...	...	
		L	43 48	...	...	...	
		Mn	48 25	17	6	...	
		F	22 20 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Feb. 13	E	e	17 37 39	...	...	...	Feeble shock.
		F	19 12 ...	...	...	...	
Feb. 14	E	e	15 53 31	...	...	...	Tremors.
		F	16 40 ...	...	...	...	
Feb. 19	E		No minute marks.				Feeble shock.
Feb. 22	E	eP	17 18 47	...	...	9,700	
		PR_1	21 51	...	...	...	
		PR_2	23 56	...	...	...	
		ScPcS	29 4	...	...	...	
		iS	29 28	...	...	...	
		L	46 25	...	...	...	
		Mn	59 35	22	66	...	
		F	20 59 ...	...	...	...	
Feb. 23	E	e	21 6 38	...	...	...	Tremors.
		F	51 ...	...	...	...	
Feb. 24	E	e	11 12 45	...	...	...	Tremors.
		F	12 40 ...	...	...	...	
Feb. 25	E	P	3 0 ?	...	...	6,000	Beginning lost under clip mark.
		i	8 14	...	...	...	
		iSR_1	12 00	...	...	...	
		L	17 20	...	...	...	
		Mn	25 57	20	16	...	
		F	4 26 ...	...	...	...	
Feb. 28	E	e	13 18 15	...	...	...	Tremors.
		F	33 ...	...	...	...	
Feb. 28	E	e	14 28 14	...	...	...	Tremors.
		F	15 4 ...	...	...	...	
Mar. 4	E	S	16 24 38	...	...	2,980	Beginning uncertain.
		L	27 22	...	...	...	
		F	49 ...	...	...	...	
Mar. 5	E	P	10 32 38	...	...	4,400	Beginning uncertain.
		eS	38 50	...	...	...	
		SR_1	41 20	...	...	...	
		SR_2	42 5	...	...	...	
		L	44 30	...	...	...	
		F	11 56 ...	...	...	...	
Mar. 5	E	iP	22 20 26	...	...	1,935	
		iS	23 46	...	...	...	
		Mn	26 28	5	70	...	
		F	24 15 ...	...	...	...	
Mar. 7	E	e	7 20 53	...	...	...	Feeble shock.
		F	8 0 ...	...	...	...	
Mar. 12	E		Lines overlapping.				
Mar. 13	E		Lines overlapping.				

TABLE D$_4$—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935			H. M. S.	Sec.	μ	Km.	
Mar. 15	E	e	10 41 42	...	...	..	
		S (?)	44 4	...	...	...	
Mar. 15	E		Lines overlapping.				
Mar. 21	E	e	8 19 38	...	...	...	Tremors.
		F	33 ...	...	...	...	
Mar. 25	E	e	5 18 00	...	...	...	Tremors.
		F	39 ...	...	...	...	
April 3	E	ePˌ	11 17 19	...	...	2,619	
		iS	21 40	...	...	...	
		iSR	22 38	...	...	...	
		L	24 1	...	...	...	
		Mn	26 3 5	8		...	
		F	12 1 ...	...	...	...	
April 10	E	e	19 45 20	...	...	...	
		f	20 0 ...	...	...	...	
April 11	E	eP	1 22 15	...	...	2,250	
		iPR$_2$	22 53	...	...	...	
		eS	26 00	...	...	...	
		L	28 31	...	...	...	
		Mn	30 40	15	7	...	
		F	2 33 ...	...	...	...	
April 11	E	iP	23 21 30	...	...	3,700	
		iS	26 59	...	...	...	
		iL	31 4	...	...	...	
		Mn	36 30	9	15	...	
		F	1 52 ...	...	...	...	
April 12	E	e	12 51 17	...	...	...	Feeble.
		f	13 41 ...	...	...	...	
April 12	E	e	22 40 10	...	...	...	Feeble.
		f	23 11 ...	...	...	...	
April 19	E	iP	15 33 41	...	...	6,550	Great.
		iPR$_1$	36 6	...	...	...	Epc: Mediterranean Sea off Coast of Tripoli.
		iS	41 53	...	...	...	
		iPS	15 42 26	...	...	...	
		iSR$_1$	46 05	...	...	...	
		iSR$_2$	48 25	...	...	...	
		iL	55 11	...	...	...	
		Mn	16 1 23	19	305	...	
		F	19 13 ...	...	...	...	
April 19	E	e	20 50 10	...	...	...	Feeble.
		f	21 29 ...	...	...		
April 20	E	iP	5 21 8	...	...	6,600	After shock of Mediterranean Sea Earthquake.
		iS	29 23	...	...	...	
		L	43 00	...	...	...	
		Mn	48 47	14	17	...	
		F	6 53 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
April 20	E	iP	22 10 3	...	...	4,810	Epc: Formosa.
		iS	16 37	...	...	...	
		iPS	17 21	...	...	...	
		iSR$_1$	20 30	...	...	...	
		iSR$_2$	21 43	...	...	...	
		iL	24 18	...	...	...	
		Mn	31 55	15	38	...	
		F	24 35 ...	...	...	...	
April 21	E	e	7 33 30	...	...	...	No minute marks.
		iS	39 30	...	...	...	Times approximate.
		Mn	50 ...	17	9	...	
		F	8 44 ...	...	...	...	
April 23	E	iP	16 50 20	...	...	2,310	Epc : Assam.
		iS	54 11	...	...	...	
		L	56 28	...	...	...	
		F	17 33 ...	...	...	...	
April 24	E	iP	15 54 54	...	...	1,155	Epc : Southeast Maldive Island
		S	57 02	...	...	...	
		F	17 19 ...	...	...	...	
April 24	E	e	17 58 43	...	...	...	Tremors.
		f	18 19 ...	...	...	...	
May 1	E	eP	10 32 42	...	...	4,610	
		eS	39 5	...	...	...	
		iSR$_2$	42 33	...	...	...	
		L	45 2	...	...	...	
		F	11 37 ...	...	...	...	
May 1	E	e	14 19 00	...	...	...	Tremors
		f	32 ...	...	...	...	
May 7	E	e	6 3 00	...	...	...	
		f	35 ...	...	...	...	
May 12	E	e	3 6 ...	...	...	...	Series of tremors.
		f	4 0 ...	...	...	...	
May 12	E	e	5 30 46	...	...	...	Feeble.
		i	34 16	...	...	...	
		f	6 6 ...	...	...	...	
May 13	E	iP	19 59 1	...	...	2,680	
		iS	20 3 21	...	...	...	
		SR$_4$	4 33	...	...	...	
		L	5 58	...	...	...	
		F	21 5 ...	...	...	...	
May 14	E	PR$_1$	23 41 32	...	...	11,670	Beginning uncertain due congestion of lines.
		ScPcS	47 41	...	...	...	
		PS	50 38	...	...	...	
		F	1 5 ...	...	...	...	

TABLE D_4—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935			H. M. S.	Sec.	μ	Km.	
May 15	E	iP	2 6 15	...	...	2,245	Epc : Upper Sind.
		S	10 00	...	...	...	
		L (?)	11 43	...	...	...	
		Mn ?	18 48	5	42	...	
		F	3 10 ...	...	...	...	
May 16	E	S	17 34 48	...	...	3,060	Preliminary tremors too feeble.
		L	37 8	...	...	...	
		Mn	39 42	...	...	...	
May 20	E	e	5 30 00	...	...	...	
		f	56 ...	...	...	...	
May 21	E	ePg	4 27 15	...	...	2,300	
		PR_1	27 40	...	...	...	
		iS	31 5	...	...	...	
		iSR_1	32 0	...	...	...	
		iL	33 3	...	...	..	
		Mn	34 49	4	8	..	
May 21	E	e	7 1 00	...	...	...	Tremors.
		f	56 ...	...	...	...	
May 24	E		...	...	...	...	Lines overlapping.
May 25	E	...	...	...	...	.	Lines overlapping.
May 26	E	e	22 12 00	...	...		Tremors.
		f	23 4 ...	...	..		
May 30	E	iP	21 37 36	...	...	2,440	Epc : Baluchistan.
		iPR_1	38 00	..			
		iPR_2	38 10	...	...	...	
		iS	41 37	...	...	...	
		SR_1	42 29	...	...	...	
		L	43 39	...	...	...	
		Mn	51 ...	...	7334	...	
		F	1 5 ...	...	...	...	
May 31	E	ePg	2 8 23	...	...	2,410	
		S	12 22	...	...	...	
		SR_1	13 13	...	...	...	
		iL	14 18	...	...	...	
		Mn	16 12	5	8	...	
May 31	E	ePg	8 27 00	...	...	...	Tremors.
		f	42 ...	...	...	...	
May 31	E	ePg	17 17 16	...	...	2,490	
		S	21 21	...	...	...	
June 1	E	ePg	4 35 13	...	...	2,420	
		ePR_2	35 34	...	...	...	
		eSg	39 13	...	...	...	
		SR_1	40 1	...	...	...	
		L	41 15	...	...	...	
		F	5 38	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
June 2	E	iP	9 21 27	...	...	2,490	
		PR_1	21 50	...	...	...	
		iS	25 32	...	...	...	
		L	27 33	...	...	...	
		Mn	29 49	5	19	...	
		F	10 28 ...	...	...	...	
June 22	E		No time marks				
June 24	E	iP	23 36 19	...	...	10,100	
		PR_1	40 00	...	...	...	
		PR_2	42 14	...	...	...	
		ScPcS	46 40	...	...	...	
		SR_1	53 40	...	...	...	
		F	1 43 ...	...	...	...	
June 29	E	ePg	8 9 23	...	...	...	Feeble shock.
		f	53 ...	...	...	...	
July 5	E	ePg	17 59 26	...	...	3,220	
		eS	18 4 25	...	...	...	
		SR_1	5 38	...	...	...	
		iL	7 10	...	...	...	
		Mn	9 26	3	20	...	
		F	32 ...	...	...	...	
July 7	E	e	13 32 ...	...	...	...	Tremors.
		f	14 18 ..	...	...	...	
July 10	E	i	20 31 43	...	...	...	
		e	34 33	...	...	...	
		Mn	36 36	12	24	...	
		F	21 25 ...	...	...	...	
July 12	E	e	1 56 ...	...	...	...	Tremors.
		F	2 28 ...	...	...	...	
July 16	E	iP	16 27 7	...	...	5,010	
		PR_1	28 40	...	...	...	
		PR_2	29 15	...	...	...	
		eS	33 52	...	...	...	
		SR_1	36 52	...	...	...	
		SR_2	37 53	...	...	...	
		L	40 28	...	...	...	
		Mn	51 22	7	3	...	
		F	17 24 ...	...	...	...	
July 17	E	ePg	11 10 52	...	...	...	Distant feeble shock.
		f	12 43 ...	...	...	...	
July 19	E	ePg	1 00 17	...	...	6,910	
		PR_2	03 42	...	...	...	
		iS	08 50	...	...	...	
		PS	09 20	...	...	...	
		SR_1	13 07	...	...	...	
		SR_2	15 03	...	...	...	
		L	19 40	...	..	...	
		Mn	29 54	10	9	...	
		F	2 26 ...	...	...	...	

TABLE D$_4$—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
July 23	E	e	3 58 59	...	...	...	
		i	4 01 52	...	...	...	
		Mn	04 04?	10	36	...	No minute marks.
		F	51 ...	...	...	...	
July 27	E	e	12 12 25	...	...	...	Beginning uncertain.
		e	17 09	...	...	...	
		L	19 31	...	.	...	
		Mn	21 37	10	6	...	
		F	13 20 ...	...	...	...	
July 28	E	e	10 31 30	...	...	...	Phases not clear.
		Mn	56 45	6	5	...	
		F	11 53 ...	...	...	...	
July 28	E	e	5 30 55	...	...	...	
		i	34 50	...	...	...	
		L	36 38	...	...	...	
		Mn	38 24	4	5	...	
		F	6 01 ...	...	...	...	
July 29	E	ePi	7 52 17	...	...	13510	
		PR$_1$	53 31	...	...	...	
		ScPcP	55 06	...	...	...	
		PR$_2$	56 14	...	...	...	
		Sc Pc S	59 7	...	...	...	
		ScPcPcS	8 00 43	...	...	...	
		S	01 40	...	...	...	
		PS	03 43	...	...	...	
		PPS	04 56	...	...	...	
		SR$_1$	10 28	...	...	...	
		SR$_2$	14 55	...	...	...	
		L	31 30	...	...	...	
		Mn	41 02	20	12	...	
		F	9 57 ...	...	...	...	
July 29		e	23 27 44	...	...	...	Lines overlapping.
		Mn	33 35	8	12	...	
July 30	E	e	5 55 30	...	...	...	Other phases not clear.
		L	6 8 37	...	...	...	
		Mn	12 29	17	9	...	
		F	7 4 ...	...	...	...	
Aug. 1	E	e	14 27 24	...	...	...	Slight shock.
		f	49 ...	...	...	...	
Aug. 3	E	iP	1 14 36	...	...	2245	
		iS	18 21	...	...	...	
		SR$_1$	19 6	...	...	...	
		L	20 4	...	...	...	
		Mn	21 45	13	429	...	
		F	3 56 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Aug. 17	E	eP	1 58 12	...	...	10900	L-waves poor.
		ePR$_1$	2 2 7	...	...	...	
		iPR$_2$	4 13	...	...	...	
		ScPcS	8 36	...	...	...	
		ScPcPcS	9 16	...	...	...	
		PS	11 00	...	...	...	
		iSR$_1$	16 20	...	...	...	
		Mn	29 0	40	79	...	
		F	4 18 ...	...	...	...	
Aug. 23	E	iP	14 3 45	...	...	3,065	
		iS	8 33	...	...	...	
		iSR$_1$	9 51	...	...	...	
		L	11 51	...	...	...	
		Mn	13 14	19	37	...	
		F	15 26 ...	...	...	...	
Aug. 25	E	e	5 49 20	...	...		Tremors.
		f	6 10 ...	...	...	...	
Sept. 4	E	iP	1 45 50	...	...	4635	
		PR$_1$	47 20	...	...	...	
		iPR$_2$	47 47	...	...	...	
		iS	52 15	...	...	...	
		SR$_1$	55 2	...	...	...	
		SR$_2$	55 48	...	...	...	
		L	58 30	...	...	...	
		Mn	2 9 6	10	8	...	
		F	Mixed up with the following shock.				
Sept. 4	E	e	3 36 8	...	...	...	Feeble shock.
		f	4 33 ...	...	...	...	
Sept. 9	E	eP	6 28 8	...	...	6820	
		iS	36 36	...	...	...	
		PS	37 7	...	...	...	
		SR$_1$	40 43	...	...	...	
		SR$_2$	42 52	...	...	...	
		L	47 29	...	...	...	
		Mn	52 25	24	28	...	
		F	8 33 ...	...	...	...	
Sept. 11	E	e	12 42 42	...	...	...	Tremors.
		f	13 14 ...	...	...	...	
Sept. 11	E	iP	14 14 58	...	...	7,365	
		PR$_1$	17 23	...	...	...	
		PR$_2$	18 41	...	...	...	
		iS	23 54	...	...	...	
		PS	24 22	...	...	...	
		SR$_1$	28 21	...	...	...	
		SR$_2$	30 45	...	...	...	
		L	35 45	...	...	...	
		Mn	51 3	19	16	...	
		F	17 25 ...	...	...	...	

TABLE D_4—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Sept. 12	E	eP?	17 13 40	...	...	2,180?	Beginning uncertain.
		eS	17 20	...	...	...	
		L	19 0	...	...	...	
		Mn	20 50	9	3	...	
		F	44 ...	...	...	...	
Sept. 15	E	e	11 37 13	...	...	...	Tremors.
		f	13 1 0	...	...	...	
Sept. 15	E	e	14 53 51	...	...	...	Other phases not clear.
		L	15 22 34	...	...	...	
		Mn	39 35	19	16	...	
		F	16 59 ...	...	...	...	
Sept. 18	E	e	8 34 30	...	...	...	Feeble shock.
		f	9 38 ...	...	...	...	
Sept. 20	E	iP	1 57 18	...	...	7,200	
		PR_1	59 45	...	...	...	
		S	2 6 3	...	...	...	
		PS	6 44	...	...	...	
		SR_1	10 33	...	...	...	
		L	21 20	...	...	...	
		Mn	26 51	25	544	...	
		F	Mixed up with the following shock				
Sept. 20	E	iP	5 33 55	...	...	7,255	
		PR_1	36 17	...	...	...	
		PR_2	37 42	...	...	...	
		iS	42 45	...	...	...	
		PS	43 15	...	...	...	
		SR_1	47 18	...	...	...	
		SR_2	49 33	...	...	...	
		L	54 38	...	...	...	
		Mn	6 4 17	15	18	...	
		F	8 44 ...	...	...	...	
Sept. 23	E	iP	9 29 7	...	...	7,310	
		PR_1	31 36	...	...	...	
		PR_2	32 55	...	...	...	
		iS	38 0	...	...	...	
		PS	38 33	...	...	...	
		SR_1	42 30	...	...	...	
		SR_2	44 50	...	...	...	
		Mn	58 48	18	14	...	
Sept. 24	E	e	22 48 ...	...	...	...	Feeble shock.
		F	0 14 ...	...	...	...	
Sept. 25	E	e	10 30 33	...	...	...	Feeble shock.
		f	11 38 ...	...	...	...	
Sept. 29	E	e	6 48 19	...	...	...	Tremors.
		f	7 17 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km.	
Oct. 2	E	iP	5 43 57	...	...	7,355	
		PR_1	46 19	...	...	...	
		S	52 52	...	...	...	
		PS	53 22	...	...	...	
		SR_1	57 28	...	...	...	
		SR_2	59 50	...	...	...	
		F	7 1 ...	...	...	...	
Oct. 4	E	i	5 23 28	...	...	...	Feeble. Other phases not clear.
		f	49 ...	...	...	...	
Oct. 4	E	eP	14 55 41	...	...	2,360	Feeble. L-waves poor.
		S	59 35	...	...	...	
		SR_1	15 0 35	...	...	...	
		L	1 18	...	...	...	
		Mn	2 48	6	9	...	
		F	40 ...	...	...	...	
Oct. 6	E	e	14 53 27	...	...	...	Feebleshock
		f	15 28 ...	...	...	...	
Oct. 7	E	e	5 39 25	...	...	...	Tremors.
		f	6 38 ...	...	...	...	
Oct. 8	E	eP	9 25 40	...	...	2885	
		S	30 15	...	...	...	
		SR_1	31 29	...	...	...	
		L	33 0	...	...	...	
		Mn	34 47	7	21	...	
		F	10 21 ...	...	...	...	
Oct. 11	E	e	4 27 11	...	...	...	Slight.
		iS (?)	30 4	...	...	...	
Oct. 11	E	iP	22 26 56	...	...	7,455	
		PR_1	29 28	...	...	...	
		eS	35 56	...	...	...	
		PS	36 29	...	...	...	
		SR_2	43 36	...	...	...	
		L ?	49 6	...	...	...	
		F	24 0 ...	...	...	...	
Oct. 12	E	eP	16 55 35	...	...	7,705	
		S	17 4 46	...	...	...	
		PS	5 13	...	...	...	
		SR_1	9 25	...	...	...	
		SR_2	12 14	...	...	...	
		L	18 20	...	...	...	
		Mn	30 0	15	9	...	
		F	19 30 ...	...	...	...	
Oct. 13	E	e	15 57 52	...	...	...	Tremors.
		f	16 33 ...	...	...	...	

TABLE D$_4$—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S	Sec.	μ	Km.	
Oct 17	E	iP	14 37 24	...	...	2,455	
		iPR$_1$	37 44	...	...	...	
		PR$_2$?	37 52	...	...	...	
		IS	41 26	...	...	...	
		SR$_1$	42 15	..	...	...	
		eL	43 30	..	...	...	
		Mn	45 21	20	7	...	
		F	15 31 ...	...	...	...	
Oct. 18		eP	0 22 36	...	...	7,195	
		PR$_1$	24 58	...	...	...	
		PR$_2$	26 15	...	...	...	
		iS	31 24	...	...	...	
		iPS	31 53	...	...	...	
		SR$_1$	35 54	...	...	...	
		L	42 24	...	...	...	
		Mn	57 36	17	18	...	
		F	2 3 ...	...	...	...	
Oct. 18	E	iP	11 15 45	...	...	6,955	
		PR$_1$	18 9	...	...	...	
		PR$_2$	19 17	...	...	...	
		S	24 20	...	...	...	
		PS	24 50	...	...	...	
		SR$_1$?	28 46	...	...	...	
		SR$_2$?	30 49	...	...	...	
		L	35 33	...	...	...	
		Mn	39 30	20	8	...	
		F	12 30 ...	...	...	...	
Oct. 18	E	e	15 57 52	...	...	...	Tremors.
		f	16 33 ...	...	...	...	
Oct. 20	E	eP	4 55 45	...	...	...	
		eS	59 15	...	...	...	
		SR$_1$	5 0 9	...	...	...	
		L	1 0	...	...	...	
		Mn	3 0 14	7	...		
		F	55 ...	...	...	...	
Oct. 26	E	e	21 27 52	...	...	...	Feeble shock.
		L	31 24	...	...	...	
		Mn	32 22 11	8	...		
		f	49 ...	...	...	...	
Oct. 27	E	e	5 49 ...	...	...	...	Tremors.
		f	6 35 ...	...	...	...	
Oct. 28	E	e	12 17 48	...	...	...	Feeble.
		L	20 46	...	...	...	
		Mn	21 32 10	7	..		
Oct. 29	E	e	10 14 ...	...	...	...	Tremors.
		f	49 ...	...	...	...	
Oct. 30	E	e	2 40 33	...	...	...	Tremors.
		f	3 45 ...	...	...	...	
Oct. 31	E	e	19 32 ...	...	...	...	Tremors.
		f	20 23 ...	...	...	...	
Nov. 1	E	e	7 7 13	...	...	...	Tremors.
		f	8 0 ...	...	...	...	
Nov. 1	E	iP	16 27 53	...	...	2,855	
		PR$_1$	28 29	...	...	...	
		iS	32 26	...	...	...	
		L	35 17	...	...	...	
		Mn	40 58	15	57	...	
		F	19 7 ...	...	...	...	
Nov. 3	E	eP	16 46 0	...	...	1,000	
		eS	48 49	...	...	...	
		SR$_1$	49 20	...	...	...	
		L	49 45	...	...	...	
		M	51 9	9	3	...	
		F	17 8 ...	...	...	...	
Nov. 5	E	iP	21 6 8	...	...	5,300	
		PR$_1$	7 50	...	...	...	
		PR$_2$	8 27	...	...	...	
		iS	13 10	...	...	...	
		SR$_1$	16 14	...	...	...	
		SR$_2$	17 20	...	...	...	
		L	20 7	...	...	...	
		Mn	24 4	25	13	...	
		F	22 32	...	...	...	
Nov. 6	E	Lines overlapping. Times indecipherable.					Tremors.
Nov. 9	E	e	6 5 25	...	...	...	Feeble.
		f	55 ...	...	...	...	
Nov. 10	E	e	9 14 25	...	...	...	Tremors.
		f	10 18 ...	...	...	...	
Nov. 10	E	e	18 50 25	...	...	...	Distant. Feeble.
		f	20 59 ...	...	...	...	
Nov. 11	E	e	13 23 40	...	...	...	Distant. Feeble.
		f	15 8 ...	...	...	...	
Nov. 12	E	iP	21 33 0	...	...	2,345	
		PR$_2$	33 31	...	...	...	
		iS	36 53	...	...	...	
		L	38 37	...	...	...	
		M	40 30	20	23	...	
		F	23 7 ...	...	...	...	
Nov. 14	E	e	20 23 30	...	...	...	Feeble.
		f	21 11 ...	...	...	...	

TABLE D_4—*contd.*

Date	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks
1935.			H. M. S.	Sec.	μ	Km.	
Nov. 16	E	e	5 58 48	...	...	...	Feeble.
		f	6 56 ...	...	...	...	
Nov. 22	E	e	12 3 10	...	...	...	Tremors.
		f	30 ...	...	...	...	
Nov. 23	E	e	9 12 31	...	...	...	Tremors.
		f	10 10 ...	..	...	...	
Nov. 25	E	iP	10 6 58	...	...	2,045	
		PR_1	7 15	...	...	...	
		iS	10 27	...	...	...	
		SR_1	11 10	...	...	...	
		L	11 55	...	...	...	
		Mn	18 15	13	60	...	
		F	13 1 ...	...	...	...	
Nov. 30	E	e	3 39 40	...	...	...	Feeble shock.
		f	4 36 ...	...	...	...	
Nov. 30	E	e	4 51 33	...	...	...	Feeble shock.
		f	5 56 ...	...	...	...	
Dec. 1	E	e	23 48 05	...	...	...	Tremors.
		f	43 ...	...	...	...	
Dec. 2	E	...	...	Tremors. Lines overlapping.			
Dec. 5	E	e	18 7 24	...	...	...	Tremors.
		f	38 ...	...	...	...	
Dec. 5	E	e	18 43 33	...	...	...	Feeble shock.
		f	19 15 ...	...	...	...	
Dec. 8	E	e	17 31 08	...	...	...	Feeble shock.
			18 08 ...	...	...	...	
Dec. 14	E	iP	1 49 47	...	...	8,230	Lines overlapping.
		iPR_1	52 21	...	...	...	
		iS	59 24	...	...	...	
		eSR_2	4 9	...	...	...	
		eL	8 3	...	...	...	
		Mn	12 44	24	6	...	
		F	3 14 ...	...	...	..	
Dec. 14	EP	eP ?	22 24 52	...	..	18,200	Epc : 14° N, 94° W, (U. S. C. G. S.).
		iP^1	26 10	...	...	...	
		$\overline{ScPc\,PcS}$	37 13	...	...	...	
		$PScPcS$	41 6	...	...	...	
		PPS	43 59	...	...	...	
		SR_1	50 27	...	...	...	
		iSR_2	56 28	...	...	...	
		iL	23 22 00	...	...	...	
		Mn	34 45	22	34	...	
		F	49 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec	μ	Km.	
Dec. 15	E	eP	7 20 28	...	...	9,560	Epc : 12° S, 161° E (U. S. C. G. S.).
		iS	31 04	...	...	...	Felt in Solomon Islands.
		L	51 42	...	...	...	
		Mn	59 35	20	142	...	
		F	41 18 ...	...	...	...	
Dec. 17	E	iP	19 26 12	...	...	5,300	
		iPR_3	28 44	...	...	...	Epc : East of Formosa.
		iS	3 14	...	...	...	
		iSR_2	35 35	...	...	...	
		iSR_3	37 13	...	...	...	
		iL	39 41	...	...	...	
		Mn	44 00	22	12	...	
		F	21 09 ...	...	...	...	
Dec. 18	E	e	7 17 00	...	...	...	Feeble.
		f	8 7 ...	...	...	...	
Dec. 18	E	e	17 5 45	...	...	...	Tremors.
		f	43 ...	...	...	...	
Dec. 19	E	e	21 38 00	...	...	...	Tremors.
		f	21 48 ...	...	...	...	
Dec. 19	E	e	23 19 15	...	...	...	Feeble shock.
		f	36 ...	...	...	...	
Dec. 20	E	e	18 40 38	...	...	..	Feeble shock.
		f	20 22 ...	...	...	...	
Dec. 22	E	e	20 34 23	...	...	...	Do.
		f	21 9 ...	...	...	...	
Dec. 24	E	e	12 44 14	...	...	...	Tremors.
		f	13 27 ...	...	...	...	
Dec. 24	E	e	13 43 33	...	...	...	Feeble shock.
		f	14 37 ...	...	...	...	
Dec. 28	E	iP	2 40 35	...	...	2,600	Great. Epc. North Sumatra.
		iS	44 49	...	...	...	
		L	47 02	...	...	...	
		Mn	48 43	22	1,438	...	
		F	6 51 ...	...	...	...	
Dec. 28	E	iP	17 27 09	...	..	2,600	
		iS	31 23	...	...	...	
		L	33 31	...	...	...	
		Mn	35 30	18	3	...	
		F	18 21 ...	...	...	...	
Dec. 28	E	e	18 56 47	...	...	...	Tremors.
		f	19 21 ...	...	...	...	

TABLE D_4—*concld.*

Date.	Compt.	Phase.	Time. G. M. T.	Period (Sec.)	Amplitude	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1935.			H. M. S.	Sec.	μ	Km		1935.			H. M. S.	Sec.	μ	Km.	
Dec. 29	E	e	3 41 11	...	...	...	Feeble shock.	Dec. 30	E	eP	4 15 57	...	...	2,600	
		f	4 38 ...	...	...	...				iS	20 11	...	...	...	
Dec. 29	E	iP	23 46 36	...	...	6,635				L	22 20	...	...	...	
		iPR_1	49 07	...	...	...				Mn	24 25	18	4	...	
		iPR_2	50 15	...	...	...				F	5 11 ...	...	...	...	
		iS	54 53	...	...	...									
		iPS	55 24	...	...	...									
		L	0 6 07	...	...	...		Dec. 31	E	e	1 35 27	...	...	...	Feeble shock.
		F	1 24 ...	...	...	...				f	2 27 ...	...	...	...	

T. ROYDS,
Director, Kodaikanal Observatory.

The following table contains a list of earthquakes that were reported by voluntary observers from various stations.

TABLE D$_5$.

Station	Date.	Time (G.M.T.) of earthquake.	Duration.	Intensity (Rossi-Forel scale).	Number of shocks.	Remarks.
	1935.	H. M.	Sec.			
Salona	Jan. 3	13 09	5 to 7	4	1	
Dhubri	„ 7	02 50	4	5	1	
Drosh	„ 9	04 20	4	6	1	
Angul	„ 21	15 30	About 3	5	1	
Dhubri	„ 22	23 42	5	7	2	
Shillong	„ 22	23 40	40	5	2	
Gauhati	„ 22	28 50	About 40	6	2	
Do.	„ 31	12 11	„ 15	4	1	
Salona	„ 31	12 00	„ 25-30	5	2	With small vibrations.
Cherrapunji	„ 31	12 03	2	3	1	
Sialkot	Feb. 2	23 35	2	6	1	
Do.	„ 3	02 30	10-15	6	3	
Lahore	„ 3	02 15	3	5	1	
Dera Ismail Khan	„ 3	02 00	2 each	6	2	
Cherat	„ 3	02 22	2	6	2	
Peshawar	„ 3	02 10	100	7	2	
Drosh	„ 3	02 09	39	6	2	
Srinagar	„ 3	02 12	About 4	6	2	
Dras	„ 3	02 15	15	6	2	
Sonamarg	„ 3	02 15	15	6	2	
Rawalpindi	„ 18	23 52	About 7-10	6	1	
Cawnpore	Mar. 5	22 15	3	5	1	
Roorkee	„ 5	22 20	60	6	1	
Muktesar	„ 5	22 26	About 60	6	1	
Gauhati	„ 13	03 17	12	6	1	
Muktesar	„ 15	10 39	About 4	5	1	
Salona	„ 20	23 50	„ 3	3	...	Only small vibrations.
Naya Dumka	„ 20	23 50	„ 20	3	...	Unusual sound like motor car was heard.
Shillong	„ 21	00 00	40	6	3	
Rangpur (Bengal)	„ 21	00 26	70	4	...	
Gauhati	„ 21	00 15	About 15	5	1	Jerking continued till about 50 secs.
Khulna	„ 21	00 05	3 or 4	3	3	Separate shocks, middle shock was strongest.
Dhubri	„ 21	00 02	30	7	3	
Cherrapunji	„ 21	00 03	10	3	1	
Faridpur	„ 21	00 08	5	6	3	
Berhampore (Bengal)	„ 21	00 05	13	5	1	
Mymensing	„ 21	00 05	2	7	2	
Rawalpindi	„ 23	11 16	30	4	2	
Dhubri	„ 30	17 38	18	7	2	
Do.	„ 31	17 43	10	7	2	
Peshawar	Apr. 3	11 15	10	6	1	
Kabul	„ 3	10 06	10	5	1	
Drosh	„ 3	11 10	45	6	...	Many shocks; two very heavy.
Srinagar	Apr. 3	11 16	About 3	8	2	
Muzaffarabad	„ 3	11 16	2	4	1	
Drosh	„ 5	18 50	30	5	2	
Srinagar	„ 5	19 04	About 1	7	1	
Salona	„ 10	18 36	„ 10	4	1	
Drosh	„ 17	17 30	35	4	2	
Akyab	„ 18	16 00	3	6	3	
Naya Dumka	„ 23	16 50	2	3	1	
Dhubri	„ 23	16 41	64	7	3	Continuous.
Faridpur	„ 23	16 37	3	5	3	
Cherrapunji	„ 23	16 45	30	3	1	
Shillong	„ 23	16 47	120	7	2	
Gauhati	„ 23	16 50	About 70	6	3	
Chittagong	„ 23	16 50	„ 5	4	2	
Salona	„ 23	16 48	„ 45	5	...	Fairly severe shaking for about 10 secs.
Mymensingh	„ 23	17 10	2	7	2	
Sibsagar	„ 23	16 49	About 40	5	2	
Do.	„ 25	03 33	„ 5	4	1	
Drosh	May 12	05 45	25	3	...	No prominent shock.
Yatung (Tibet)	„ 13	21 13	About 4	6	1	Followed by tremors.
Kabul	„ 19	02 54	5	5	2	
Dhubri	„ 26	16 53	4	7	1	
Dera Ismail Khan	„ 30	21 27	2	5	2	
Multan	„ 30	21 30	20-25	5	1	
Drosh	June 2	04 20	3	5	...	
Srinagar	„ 2	04 30	About 3		2	
Do.	„ 23	05 02	„ 2	6	1	
Gulmarg	„ 23	04 57	2	7	1	
Drosh	„ 25	23 50	20	6	...	
Peshawar	„ 25	23 55	30	7	2	
Do.	„ 26	19 00	5	4	1	
Srinagar	„ 26	00 05	About 2	5	2	
Do.	July 5	18 00	„ 3	6	2	
Cooch Behar	„ 12	15 36	„ 10	6	1	
Dhubri	„ 12	16 01	28	7	2	
Drosh	„ 13	19 30	15	5	...	
Jaipur	„ 16	21 59	2	5	1	
Salona	„ 18	02 26	About 10	5	1	
Kapadvanj (Dist. Kaira)	„ 20	07 48	1	3	2	
Yatung (Tibet)	„ 20	20 27	About 3	4	.	Several tremors.
Bhuj	„ 22	21 18	4	...	...	
Salona	„ 27	06 40	„ 7-8	5	1	
Srinagar	„ 28	05 28	„ 3	6	2	
Drosh	„ 28	05 25	„ 40	5	1	
Gulmarg	„ 28	05	10	8	3	
Srinagar	„ 29	23 7	About 2	5	1	
New Delhi	Aug. 22	00 57	2	7	2	
Dhubri	Sept. 5	12 36	8	7	2	
Cooch Behar	„ 5	12 37	About 40	6	2	
Drosh	„ 7	08 30	3	5	..	

TABLE D_5—*concld.*

Station.	Date.	Time (G.M.T.) of earthquake.	Duration.	Intensity (Rossi-Forel scale).	Number of shocks.	Remarks.	Station.	Date.	Time (G.M.T.) of earthquake.	Duration.	Intensity (Rossi-Forel scale).	Number of shocks.	Remarks.
	1935.	H. M.	Sec.					1935.	H. M.	Sec.			
Peshawar . . .	Oct. 11	04 25	5	5	1		Salona . . .	Nov. 28	19 47	4·5	5	1	
Kabul . . .	,, 11	03 40	2	5	2		Dhubri . . .	,, 30	16 19	9	7	2	
Drosh . . .	,, 11	04 15	30	5	1		,, . . .	,, 30	16 32	8	7	2	
Bushire . . .	,, 15	17 10	about 30	...	1		Gauhati . . .	,, 30	16 38	10	6	1	
Gauhati . . .	,, 19	20 25	,, 15	6	1		,, . . .	,, 30	16 40	55	6	2	
Salona . . .	,, 19	20 25	,, 30	5	...	Severe vibration 3 or 4 being in the nature of shocks.	Shillong . .	,, 30	16 55	30	6	2	
							Dhubri . . .	Dec. 3	03 32	8	7	2	
Shillong . . .	,, 19	20 25	30	6	1		Drosh . . .	,, 15	21 40	10	5	1	
Salona . . .	,, 20	04 38	2-3	4	...	Few severe vibration.	,, . . .	,, 17	21 40	5	3	1	
Drosh . . .	,, 20	19 00	40	5	1		Kabul . . .	,, 19	22 25	2	5	1	
Bushire . . .	,, 24	12 30 16 00	...	...	...		Drosh . . .	,, 19	23 00	7	3	1	
Drosh . . .	,, 24	14 30	5	5	1		Srinagar . .	,, 23	14 44	3	6	1	
Bushire . . .	,, 26	12 30 18 30	...	...	...		,, . .	,, 24	16 43	2	3	1	
,, . . .	,, 27	04 00 08 00 11 45	...	...	...		Shillong . . .	,, 26	00 22	5	5	1	
							Drosh . . .	,, 28	20 00	10	5	1	
Salona . . .	Nov. 18	05 23	3-4	4	...	Only vibrations.	,, . . .	,, 29	21 00	5	3	1	
Hazaribagh. . .	,, 25	23 30	4	3	1		, . . .	,, 30	16 35	5	5	1	

J. M. SIL,

Meteorologist, Meteorological Office, Poona.

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METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1936

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INDIA WEATHER REVIEW, 1936

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INDIA WEATHER REVIEW, 1936

INTRODUCTION.

THE India Weather Review is composed of the twelve Monthly Weather Reports and the Annual Summary.

Monthly Weather Report.

Up to 1932 the monthly means published in the Monthly Weather Reports were only for 8 hrs. L. M. T. and were based upon the telegraphed figures, the Monthly Weather Report being published promptly at the end of each month. The necessity of an afternoon weather chart for the preparation of forecasts for aviators led to most of the observatories in Persia, northern and central India, and Burma being raised by the end of 1930 to class II, recording observations both in the morning and afternoon. Arrangements for the tabulation and scrutiny of the afternoon observations were completed in 1932. From the issue for January 1933 further changes were therefore made in the Monthly Weather Report; it was expanded to contain averages of the afternoon observations also; the monthly means were based upon the scrutinised data contained in the Monthly Meteorological Registers received by post and the publication of the Monthly Weather Report was consequently delayed; data from most of the non-telegraphic observatories were also included in the Monthly Weather Report.

From 1933 each Monthly Weather Report gives a short account of the weather of the month and has the following five tables:—Table I containing the divisional and subdivisional means, Table II the monthly means of observations at 8 hrs. local mean time and 17 hrs. I. S. T. at Indian stations, Table III observations recorded at stations west of the Indus at 4 and 14 hrs. G. M. T. up to the 30th June 1934 and at 4 and 12 hrs. G. M. T. afterwards, Table IV the data of fourth class stations and Table V the rainfall data of fifth class stations.

Annual Summary.

Beginning with the issue for 1933, the Annual Summary is published in five parts, instead of seven, as detailed below:—

I. Introduction.—Title page; table of contents; introduction; sheets of errata to Monthly Weather Reports and Annual Summary.

II. Part A.—Summary of weather and rainfall and tables of meteorological data. This gives a general description of the weather of the year, and contains annual tables corresponding to the monthly tables in the Monthly Weather Reports, monthly and annual tables for a few stations, tables of observations at the third hour of observation and daily means at the first class stations and special tables of nocturnal radiation temperature, sunshine data, hourly wind velocities and rainfall.

Three plates showing the monthly and seasonal distribution of rainfall and monthly departures of pressure are given at the end.

III. Part B.—Snowfall. This gives a summary of the snowfall reports received from the mountain regions in the north of India.

IV. Part C.—Storms and depressions. This describes all storms and depressions and contains articles on western disturbances and local storms, and storm track charts.

V. Part D.—Seismic Records. This contains the records obtained with seismographs maintained by the department at Agra, Bombay, Calcutta and Kodaikanal and also a list of earthquakes that were reported by voluntary observers at various stations. The list of publications of the India Meteorological Department will be found at the end of this part.

Notes on conditions of exposure of instruments, on methods of reduction and on form of presentation of data.

The following notes concerning the methods of observation in India and of reduction and grouping of results will probably be of some help to users of this volume.

The system of territorial divisions which has been in force from April 1912 has undergone a slight change this year owing to the formation of Orissa into a separate province. The system adopted from 1st April this year is as follows :—

Territorial divisions.

Chief political divisions.	Sub-divisions.
	Bay Islands.
Burma	Lower Burma.
	Upper Burma.
Assam	Assam.
Bengal	Bengal.
Orissa	Orissa.
Bihar	Chota-Nagpur.
	Bihar.
United Provinces	United Provinces, East.
	United Provinces, West.
Punjab	Punjab, East and North.
	Punjab, Southwest.
	Kashmir.
North-West Frontier Province	North-West Frontier Province.
	Baluchistan.
Sind	Sind.
Rajputana	Rajputana, West.
	Rajputana, East.
Bombay	Gujarat.
	Konkan.
	Bombay, Deccan.
Central India	Central India, West.
	Central India, East.
Central Provinces	Berar.
	Central Provinces, West.
	Central Provinces, East.
Hyderabad	Hyderabad, North.
	Hyderabad, South.
Mysore	Mysore.
Madras	Malabar.
	Madras, Southeast.
	Madras, Deccan.
	Madras Coast, North.

Barometric pressure.

Mercurial barometers on Fortin's principle with tubes of 0·4″ bore throughout have always been in use at most of the observing stations in India ; but of late years the department has introduced an increasing number of Kew pattern barometers, made according to specifications issued by the Department.

Aneroid barometers were in use at Ispahan, Tehran Kashgar and Meshed.

At Calcutta and Bombay the standards are Newman instruments, with adjustable scales ; at Poona, the standard is an instrument on Fortin's principle. All these standards have tubes of large bore.

All instruments issued up to 1931 were compared at Calcutta before issue and their corrections determined to the Calcutta standard, which was, until 1910, about ·011″ higher than the Kew standard. On the results of intercomparison during April 1935, it would appear that the present difference is —·009 ~~; it was however decided to continue the accepted value of —·011″ until further comparisons are made.~~

Instruments issued since the year 1932 have been compared with the Fortin standard at Poona, and the corrections determined with reference to the Calcutta standard mentioned above.

The barometers are in all cases situated in masonry buildings to protect them as much as possible from rapid changes of temperature.

The heights above mean sea level of the barometers are given in all Tables. Heights of most stations have been obtained accurately by actual measurement from datum levels determined by the Great Trigonometrical Survey of India ; the heights of only a few stations, mostly in Kashmir, have been determined barometrically.

All readings are for station level reduced to 32° F. and to standard gravity.

Temperature.

The older method of exposing thermometers in India lay in the use of large open-sided sheds to protect the instruments from extraneous radiation. A detailed description of the shed and of the methods of exposure will be found in the Instructions to Observers of the India Meteorological Department (1902 edition) and in the Annual Report on the Meteorology of India for the year 1887, page 37. The cost of the sheds and of their upkeep rose greatly after the war, and it became necessary to consider other devices for efficiently shading thermometers. Experiments with other types of shed and with various types of louvred screens were carried out at Agra and described in Vol. XXIV, Part III, of the Memoirs of this department.

As a result it was decided to replace all sheds in India by Stevenson screens, as opportunity offered. The screen adopted for use in India has free inside measurements of about 22″ length, 12″ depth and 16″ height, and is somewhat larger than the pattern approved in 1884 by the Thermometer Screen Committee of the English Meteorological Society and larger too than the " small model " in common

use in Germany. It is made of teak wood painted white and has four double louvred sides and a perforated top and bottom. A sloping extra cover of wood protects the top from sun and rain. The door on the north side has 14 louvres and the remaining sides have 16 louvres each.

A beginning was made with this policy in the year 1923, and by the end of the year 1936, thermometer sheds remained to be replaced by Stevenson screens only at 8 observatories, mostly in Indian States.

Thermometers in use which were issued up to the end of 1931 were verified by comparison with Kew standard thermometers at Calcutta. Instruments issued from 1932 were compared at Poona with standards provided with certificates of correction from the National Physical Laboratory, Teddington, England. All the thermometers at the observing stations are re-standardised from time to time; all readings are corrected to their true values.

Although observations are recorded twice a day, at 8 hrs. L. M. T. and 17 hrs. I. S. T., at most of the Indian observatories, the maximum and minimum thermometers are set only once in a day, at the time of the morning observation, and the maximum and minimum temperatures refer to the 24 hours period ending at 8 hrs. local time. The monthly means of these temperatures refer to the month ending at 8 hrs. on the last day of the month. At stations west of the Indus which record observations at 4 hrs. and 12 hrs. G. M. T. maximum and minimum thermometers are set at both the hours of observation. Maximum temperature entered against any date is that for the 24 hours ending at the afternoon observation hour of that date and the minimum temperature for the 24 hours ending at the morning observation hour. Hence for maximum temperature the month ends with 12 hrs. G. M. T. and for minimum temperature with 4 hrs. G. M. T. on the last day of the month.

Terrestrial radiation.

New terrestrial radiation thermometers were brought into use at most of the departmental first-class observatories and the method of exposure was also altered in 1932. Formerly these thermometers were laid on a thick pad of woollen blanket; but since 1932 they are placed on two wooden forks on a close cropped grass plot so that the bulb of the thermometer is about $1\frac{1}{2}''$ above ground. The radiation minimum temperatures recorded by these thermometers at 12 stations appear in Table VII, in which the depression of these temperatures below the minimum temperature in shade at 4 feet above ground is also given. The normals of the radiation minimum temperature and of its depression below the shade minimum temperature are based on more than 50 years data at Calcutta, Lahore and Bombay, 40 years at Jaipur and Bangalore and about 30 years at Madras and Kodaikanal.

Hours of bright sunshine.

Sunshine recorders were in use at 12 stations. At all the Indian stations except Kodaikanal the standard Campbell-Stokes pattern sunshine recorder was in use, the Whipple-Casella type of instrument at Lahore being replaced by the standard pattern of instrument on the 25th January 1935. At Kodaikanal a Whipple Casella type still continues in use. The data from Abadan (in Iran) are from the records of a twin-cylinder Jordan sunshine recorder and are therefore not strictly comparable with those for the other stations.

Surface winds.

All anemometers issued up to the end of 1931 were compared before issue with the standard Beckley anemograph at the Alipore Observatory. Since January 1932 anemometers are issued from Poona after comparison with the standard cup anemometer there. This standard is provided with a certificate of corrections from wind channel tests made by the National Physical Laboratory, Teddington, England, and has also been compared with the Beckley anemograph at Alipore. However, as only instruments with small corrections are issued and as it is impracticable to prevent always slight alterations in exposure resulting from growth of trees or erection of buildings, it has been considered unnecessary to apply any correction to the observed values.

Up to 1911 the factor representing the ratio of air movement to travel of Beckley cups had in India, as in other countries, been taken at 3·0; but from that year the generally accepted factor of 2·2 has been used (*see* note on page 8, Monthly Weather Review, January 1912). Since 1930 the department has been gradually introducing totalising anemometers remodelled at the departmental workshop at Poona from old cup anemometers of the dial pattern. The wind data published consist of the mean hourly air movement as registered by Robinson anemometers during the 24 hours ending at the time of morning observations and the frequency of the wind direction from 8 compass points at both the hours of observation. The resultant direction wherever given is calculated by the use of Lambert's formula in which equal weight is given to each wind observation irrespective of velocity.

The hourly velocities at eight stations equipped with Beckley's or Dines' P. T. anemographs are given in Table VIII.

Humidity and cloud.

The hygrometric data are calculated by means of the departmental "Tables for the reduction of meteorological observations in India". The proportion of cloud is estimated in tenths of the sky expanse, an overcast sky being denoted by 10 and a cloudless sky by 0.

Rainfall.

Symons' raingauges with funnels of 5″ diameter are now used at all raingauge stations, with the exception of those in Mysore and Travancore where raingauges of local make having funnels of 4·7 inches diameter are in general use. At most of the departmental raingauge stations new rain-measuring glasses made according to specification drawn up by this department and tested at Poona have been introduced. The time of measuring rainfall is 8 hrs., local time, throughout India, and the amounts then registered give the rainfall of the previous 24 hours.

The rainfall data for each province are generally tabulated in the office of the provincial officers controlling registration of rainfall in the province, and published in the provincial gazettes. The data of Baluchistan, Rajputana, Central India, Eastern States and States in the Bombay Presidency

are, however, published by the Meteorological Office, Poona. These provincial tables are collected together and are issued annually in a separate volume entitled " Rainfall of India ". The forty-sixth volume, that of 1936, contains the whole rainfall data of over 3,200 stations which are utilised in preparing Tables X to XV on pages A to A . In these provincial tables and in the rainfall observations at the meteorological observatories published in this volume a " rainy day " is taken to be one on which 0·10 inch or more of rain is recorded.

Tables.

Tables I to V in the Annual Summary, Part A, corresponding to Tables I to V in the Monthly Weather Report, contain the annual means of stations whose monthly data have appeared in the Monthly Weather Reports.

Tables II-A and III-A are similar to Tables II and III respectively and contain the monthly and annual means of those stations which could not be included in the Monthly Weather Report.

The data of Seychelles, monthly means of 10 hrs. and 16 hrs. L. M. T. observations, which were published separately in Table VII up to 1935, have now been included in Table II-A and the publication of a separate table for this station has been discontinued.

Table VI gives the monthly and annual means of observations recorded at 12-30 hrs. I. S. T. at 13 first class stations. This also contains the daily means of pressure, temperature, humidity and vapour tension which have appeared in table D-1 up to 1932. The daily means of pressure, humidity and vapour tension data given in this table have been obtained from the means of 8 hrs. L. M. T., 12-30 hrs. and 17 hrs. I. S. T., and those of temperature from the means of maximum and minimum temperatures by the application of appropriate corrections, derived from the available hourly observations, to reduce them to true mean of the day. The daily means of Kodaikanal are those obtained from the hourly records of self-recording instruments corrected by eye readings. The daily means and 12-30 hrs. I. S. T. data of Bombay, with the exception of cloud, are taken from autographic charts.

Table VII gives the abstract of hours of bright sunshine and nocturnal radiation minimum temperature at 14 stations.

Table VIII gives the mean hourly wind velocity at eight stations equipped with anemographs. The heights of anemometer cups or their heads above ground are given in brackets against each station.

Table IX gives the number of days on which the Nilgiris were visible from Kodaikanal.

Tables X to XIV give the divisional and sub-divisional means of rainfall, derived from the records at over 3,200 rainfall-recording stations and Table XV gives heavy falls of 10″ and above in 24 hours at these stations.

Normals.

The normals used for comparison in Tables I to V and X to XIV are based mostly upon all the available data down to 1920. In some cases, the data up to 1930 have been used, while, at certain stations with short period data, normals have been derived by comparison with neighbouring stations having long period normals.

In Table VI normal values derived from all available data up to 1899 as published in the Indian Meteorological Memoirs, Vol. XVII, have been used. The normals of Bombay are those published in the Climatology of Bombay and are based on hourly data up to 1920. Those of Kodaikanal are based on 11 years hourly data from 1901 to 1911.

The data of stations under the administrative control of the Meteorological Offices at Calcutta, Karachi and Poona are scrutinised and supplied by the respective centres.

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ERRATA.

TABLE OF CORRECTIONS TO BE APPLIED TO DATA IN TABLES II, III AND IV OF THE MONTHLY WEATHER REPORTS FOR 1936.

[N.B.—Subsequent tables for individual months should also be referred to.]

Station. 1	Column. 2	Correction. 3	Period. 4	Station. 1	Column. 2	Correction. 3	Period. 4
Akyab . .	2.	+9.	Jan. to May.	Lucknow . .	3, 4 and 5.	—·010.	Mar. to Dec.
Do. . .	4.	+·009.	Jan. to Aug.	Madras . .	19.	+·010.	Feb. to June.
Balasore . .	3, 4 and 5.	—·006.	Jan. to July and Sep. to Dec.	Do. . .	3, 4 and 5.	+·004.	Oct. to Dec.
Balehonnur .	2.	—51.	Jan. to Mar.	Do. . .	34.	Reject data.	Jan. to Dec.
Do. .	2.	*Insert* 2917.	Apl. to Oct.	Mainpuri . .	16 and 17.	+0·3.	Feb. to Dec.
Bahraich . .	3, 4 and 5.	—·005.	Mar. to Dec.	Marmagao .	3 and 4.	+·004.	Jan. and Feb.
Do. . .	10 and 11.	+0·3.	Ditto.	Maymyo . .	33 and 34.	Reject data.	Ditto.
Do. . .	33 and 34.	Reject data.	Oct. to Dec.	Mercara . .	3 and 4.	+·012.	Oct. to Dec.
Bassein . .	2.	—6.	Feb. to Dec.	Miranshah .	2 and 3.	Reject data.	Jan. to Mar.
Berhampore .	16 and 17.	—0·4.	Jan. to Dec.	Do. .	3.	Ditto.	May to Aug.
Bhamo . .	2.	—30.	Jan. to Sep.	Motihari . .	3, 4 and 5.	—·005.	Jan. to Aug. and Oct. to Dec.
Burdwan . .	16 and 17.	—0·3.	Jan. to Dec.	Do. . .	10 and 11.	—0·3.	Jan. to Dec.
Calicut . .	3 and 4.	+·012.	Mar. to May.	Do. . .	14 and 15.	—0·4.	Ditto.
Cawnpore .	3, 4 and 5.	—·008.	Apl. and May.	Muscat . .	2.	—5.	Ditto.
Do. .	14 and 15.	—0·2.	Jan. to June.	Negapatam .	3, 4 and 5.	+·004.	Sep. to Dec.
Do. .	16 and 17.	—0·6.	Mar. to Dec.	Nellore . .	3, 4 and 5.	+·005.	Ditto.
Chandbali .	3, 4 and 5.	—·004.	Jan. to Dec.	Nokkundi .	2.	—53.	Jan. to Nov.
Cocanada . .	3, 4 and 5.	+·004.	Jan. to Aug.	Ootacamund .	3 and 4.	+·004.	Oct. to Dec.
Cochin . .	3 and 4.	+·005.	Mar. and Apl.	Pamban . .	3 and 4.	+·004.	Jan. to Dec.
Cox's Bazar .	3, 4 and 5.	—·003.	Jan. to Dec.	Do. . .	10 and 11.	+0·3.	Ditto.
Dwarka . .	3, 4 and 5.	+·004.	Jan. to Mar.	Parachinar .	3, 4 and 5.	—·007.	Jan. to Sep.
Goalundo . .	10.	—0·5.	Jan. to Dec.	Purnea . .	6 to 9.	Reject data.	July and Aug.
Do. . .	11.	+0·4.	Ditto.	Ranchi . .	3, 4 and 5.	—·012.	Jan. to April.
Gonda . .	3 and 5.	+·005.	Ditto.	Razmak . .	6 and 8.	—1·0.	Jan. to Mar. and May to Aug.
Gwador . .	2.	+17.	Jan. to May.	Rentichintala .	3.	Reject data.	May to Sep.
Jagdalpur .	3, 4 and 5.	+·010.	Jan. to Nov.	Sandheads .	2.	+5.	Jan. to July.
Jalpaiguri .	16 and 17.	—0·4.	Jan. to Apl. and June and July.	Do. .	4.	Reject data.	Ditto.
Jamnagar .	2.	+9.	Jan. to Mar.	Sialkot . .	3, 4 and 5.	+·021.	Aug. to Dec.
Do. .	2.	*Insert* 60.	Apl. to June.	Sukkur . .	10.	+0·4.	Jan. to Dec.
Kalat . .	2.	+122.	Jan. to Mar.	Surat . .	3, 4 and 5.	+·004.	Jan. to Mar.
Do. . .	2.	*Insert* 6617.	Apl. to Oct.	Trichinopoly .	3 and 4.	+·004.	Jan. to Dec.
Do. . .	2.	*Insert* 6616.	Nov. and Dec.	Do. .	16.	—0·4.	Ditto.
Kanker . .	3 and 5.	+·009.	Jan. to Nov.	Veraval . .	3, 4 and 5.	+·003.	Jan. to May.
Kanpetlet .	2.	+48.	Jan. to May.	Vizagapatam .	3, 4 and 5.	+·005.	Jan. to July.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
JANUARY.		
Pages 4-5.		
Bassein . .	2.	21.
Minbu . . .	17.	64·3.
Lashio . . .	3, 4 and 5.	27·151, —·019 and 27·055.
Satkhira . .	4.	—·005.
Sandheads . .	3 and 5.	29·959 and 29·894.
Asansol . .	13 and 33.	6 days and 3·1 [f].
Jalpaiguri . .	18 to 23.	·340, —·056, ·368, 89, —2 and 58.
Footnote—*Insert* "*f*—mean of 25 days" *for* "*e*—mean of 26 days."		
Page 6.		
Daltonganj . .	10, 11, 15, 16, 20, 26, 33 and 34.	46·3, —1·0, 72·3, 47·6, ·259, 3·1, 1·6 and —0·1.
Cawnpore . .	20 and 23.	·233 and 32.
Jhansi . . .	3 and 4.	29·214 and +·007.
Ludhiana . .	9.	4, 30.
Pages 8-9.		
Dras . . .	3, 4, 14, 16 and 21.	20·742, —·033, —5·3 [a], —5·8 [a] and 83.
Quetta . . .	4.	—·018.
Kalat . . .	33 and 34.	3·6 and —0·5.
Jaipur . . .	19.	—·050.
Jamnagar . .	4.	—·043.
Footnote—*Insert* "*a*—mean of 30 days."		
Page 10.		
Jubbulpore . .	3, 4 and 5.	28·680, —·018 and 28·580.
Karwar . .	3 and 4.	29·913 and 0.
Pages 12-13.		
Trivandrum . .	15.	84·8 [a].
Trichinopoly . .	18, 19, 21 and 22.	·690, +·034, 77 and —1.
Madras . . .	28.	—1·33.
Darjiling . .	3 and 4.	22·876 and —·056.
Kalimpong . .	15, 18, 19, 20, 24, 25 and 33.	51·0, ·258, —·029, ·270, 2·7 +0·1 and 6·2.
Muktesar . .	49.	7.
Cherat . . .	3.	25·739 [l].
Drosh . . .	33.	2·7 [f].
Aden . . .	4, 7, 19 and 25.	+·054, +3·3, +·011 and +1·3.
Footnotes—*Insert* "*f*—mean of 25 days" and "*l*—mean of 19 days" *for* "*m*—mean of 18 days."		

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
JANUARY—*contd.*		
Page 14.		
Meshed . . .	3 and 5.	26·78 and 26·73.
Page 16.		
Goalundo . .	12 to 15.	·408, —·011, 82 and +2.
*Zahidan . .	*Omit* the figures in column 24.	
FEBRUARY.		
Page 20.		
Akyab . . .	21.	79.
Lashio . . .	3, 4 and 5.	27·116, —·004 and 27·026.
Satkhira . .	4.	—·005.
Sandheads . .	3 and 5.	29·918 and 29·851.
Burdwan . .	20.	·354.
Jalpaiguri . .	18 to 20 and 23.	·415, —·006, ·382 and 48.
Pages 22-23.		
Ranchi . . .	33 and 34.	3·4 and —1·0.
Daltonganj . .	27 and 28.	·083 and —0·36.
Bahraich . .	23.	48.
Jhansi . . .	6 and 7.	81·5 and +0·7.
Page 24.		
Jaipur . . .	19 and 22.	+·027 and +1.
Page 27.		
Gadag . . .	27 and 29 to 31.	0·29, 0·26, 12 and 1.
Pages 28-29.		
Calicut . . .	3 and 4.	29·892 and —·002.
Cochin . . .	3 and 4.	29·909 and 0.
Madura . .	33.	4·1 [d].
Trichinopoly . .	18, 19, 21 and 22.	·736, +·038, 76 and —1.
Simla . . .	5.	23·005.
Page 30.		
Jask . . .	*Omit* the figures in columns 6 to 9.	
Meshed . . .	3 and 5.	26·58 and 26·56 [c].
Page 32.		
Goalundo . .	12 to 15.	·515, +·057, 84 and +8.

Reference. 1	Column. 2	Replace the existing figures, if any, by 3
MARCH.		
Pages 36-37.		
*Port Blair . .	33 and 34.	3·3 and +0·1.
Kyaukpyu . .	6, 7, 23 to 26, 33 and 34.	85·0, —0·2, 73, 3·5, —0·3, 1·5, 2·9 and +0·7.
Tezpur . . .	5.	29·508.
Satkhira . .	4.	+·021.
Sandheads . .	5.	29·778.
Asansol . .	16, 18, 19 and 33.	62·3, ·368, —·090 and 4·0.
Jalpaiguri . .	18 to 23.	·459, —·045, ·395, 70, —7 and 37.
Pages 38-39.		
Daltonganj . .	27 to 32.	0·87, +0·18, 0·47, 9, 2 and +0·2.
Cawnpore . .	3, 4 and 5.	29·471, + ·024 and 29·372.
Bahraich . .	3, 4 and 5.	29·448, +·809 and 29·355.
Page 40.		
Multan . . .	7.	—2·3.
Jaipur . . .	19.	+·003.
Footnote—*Omit* "*g*—mean of 24 days."		
Page 42.		
Hassan . . .	3 and 4.	26·812 and +·010.
Page 44.		
Trichinopoly . .	18, 19, 21 and 22.	·737, —·020, 69 and —4.
Page 46.		
Meshed . . .	3 and 5.	*c* *c* 26·73 and 26·69.
Page 48.		
Goalundo . .	12 to 15.	·634, +·021, 74 and 0.
APRIL.		
Page 51.		
TABLE I—DIVISION.		
Delete "4.—Bihar and Orissa" in column 1 and all figures against it in columns 2-10.		
Enter "4.—Orissa" in column 1 and the following figures in columns 2-10 :—		
0·13, 1·15, —1·02, —89, +0·6, +0·9, +·001, —1 and +0·2.		
Enter "5.—Bihar" in column 1 and the following figures in columns 2-10 :—		
0·17, 0·62, —0·45, —73, +0·7, —0·7, —·103, —12 and —0·5		
Change the subsequent serial numbers of the divisions from 5-15 to 6-16.		

Reference. 1	Column. 2	Replace the existing figures, if any, by 3
APRIL—*contd.*		
Page 51—contd.		
Madras . . .	2 to 10.	0·93, 1·43, —0·50, —35, —0·5, +1·2, —·032, —3 and +0·8
Mean of India .	8.	—·038.
TABLE I—SUB-DIVISION.		
Orissa . . .	2 to 10.	0·13, 1·15, —1·02, —89, +0·6, +0·9, +·001, —1 and +0·2.
Bihar . . .	2 to 10.	0·18, 0·57, —0·39, —68, +1·3, —0·4, —·105, —13 and —0·6.
Madras Coast North	2 to 10.	0·60, 0·63, —0·03, —5, 0, +0·9, —·019, —2 and +0·3.
Pages 52-53.		
*Port Blair . .	33 and 34.	4·8 and +1·1.
Lashio . . .	3, 4 and 5.	27·033, —·013 and 26·927.
Tezpur . . .	33 and 34.	5·3 and +0·8.
Srimangal . .	29.	3·55.
Narayanganj . .	24 and 25.	4·9 and —0·7.
Satkhira . .	4.	—·028.
Sandheads . .	3 and 5.	29·747 and 29·638.
Jalpaiguri . .	18 to 23.	·645, —·010, ·648, 71, —6 and 54.
Pages 54-55.		
Chandbali . .	33.	*c* 8·1.
Naya Dumka .	5, 10 and 11.	29·096, 74·3 and + 0·6.
Cawnpore . .	20.	·268.
Aligarh . . .	33.	*b* 4·8.
Sialkot . . .	25.	—0·9.
Pages 56-57.		
Multan . . .	19.	+·026.
Chaman . .	16 to 23.	56·5, 65·9, ·372, +·117, ·498, 60, +15 and 52.
Jaipur . . .	19.	—·064.
†Brijnagar . .	33.	3·8.
Deesa . . .	10.	69·9.
Jamnagar . .	4.	+·002.
Tankhala . .	24.	0·6.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
APRIL—*contd.*		
Pages 58-59.		
Nowgong	26.	[b] 1·2.
Umaria	18 and 20.	·327 and ·251.
Khandwa	3 and 4.	28·746 and —·006.
Hassan	3 and 4.	26·767 and +·007.
Pages 60-61.		
Negapatam	33.	[i] 7·1.
Trichinopoly	18, 19, 21, 22 and 39 to 42.	·781, —·034, 66, —2, 5, 7, 8 and 1.
Shillong	20.	·366.
Pachmarhi	6 to 9, 20, 33, 34, 44 and 51.	90·3, —1·7, 97, 30, ·242, 4·0, —0·5, 2 and 10.
Footnote—*Insert* "[i]—mean of 22 days."		
Page 62.		
Bushire	*Omit* the figures in columns 6 to 9.	
Meshed	3 and 5.	[d] [d] 26·62 and 26·58.
Seistan	18.	·449.
Page 64.		
Goalundo	12 to 15.	·910, +·101, 85 and +7.
Pabna	5.	28, 29.
MAY.		
Pages 68-69.		
Kyaukpyu	16.	78·8.
Akyab	18.	·889.
Mymensingh	30.	28.
Barisal	30.	28.
Satkhira	4.	—·032.
Saugor Island	5.	29·516.
Sandheads	3 and 5.	29·594 and 29·511.
Pages 70-71.		
Ranchi	3 to 7, 24 to 26, 33 and 34.	27·492, —·048, 27·386, 95·8, —2·7, 4·1, +1·5, 6·3, 5·2 and —0·2.
Naya Dumka	46 and 47.	6 and 9.
Page 72.		
Jaipur	19.	—·006.
Jamnagar	4.	—·067.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
MAY—*contd.*		
Pages 76-77.		
Trichinopoly	18, 19, 36, 38 and 40 to 42.	·804, +·008, 0, 2, 8, 10 and 5.
Darjiling	3, 4, 6, 7, 8, 14, 16, 18, 19, 33, 34, 37, 38, 41 and 43.	[b] 22·841, —·046, 63·4, —1·2, 70, 57·6, 56·2, ·432, +·017, 4·5, +0·6, 12, 4, 2 and 13.
Footnote—*Omit* "[c]—mean of 28 days."		
Page 79.		
Ormara	33.	[f] 11·2.
Footnote—*Insert* "[f]—mean of 25 days."		
Page 80.		
Goalundo	12 to 15 and 20.	·910, +·006, 85, +5 and 28.
Wana	*Omit* the figure in column 16.	
JUNE.		
Pages 84-85.		
Tavoy	37 and 43.	1 and 21.
Gwa	27 and 28.	59·44 and +20·49.
Satkhira	4.	+·019.
Burdwan	31 and 32.	16 and +3·2.
Asansol	5, 6 and 7.	29·031, 91·8 and —5·3.
Malda	49.	1.
Jalpaiguri	18 to 22.	·892, —·013, ·954, 89 and 0.
Pages 86-87.		
Chandbali	18, 20, 31 and 32.	·954, ·963, 18 and +7·5.
Cuttack	*Omit* the figures in columns 12 and 13.	
Do.	24, 26, 27, 28, 29, 31 and 32.	[f] [f] 8·0, 7·7, 20·37, +10·29, 5·80, 15 and +3·4.
Ranchi	3 to 11, 13, 17, 24 to 26, 33 and 34.	27·421; +·003; 27·342; 86·2; —5·0; 98; 6; 72·5; —2·6; 2, 17, 24; 74·0; 6·6; +0·4; 6·5; 5·8 and —0·3.
Cawnpore	18 and 19.	·887 and +·083.
Dehra Dun	9.	1, 12.
*New Delhi	5.	28·692.
Lahore	5.	28·707.
Rawalpindi	24.	[f] 3·0.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
JUNE—*contd.*		
Pages 88-89.		
Montgomery	18, 19 and 20.	·882, +·209 and ·862.
Dera Ismail Khan	5.	28·805. *d*
Fort Sandeman	23.	25.
Chaman	17.	78·1. *b*
Nokkundi	10.	79·8.
Deesa	24 and 26.	*b* 8·4 and *b* 5·0.
Jamnagar	4.	—·044.
Page 90.		
Hassan	3 and 4.	26·691 and +·021.
Page 92.		
Trichinopoly	18, 19, 21, 22 and 39 to 42.	·703, —·027, 60, —2, 0, 12, 15 and 3.
Mussooree	23.	87.
Pages 94-95.		
Ormara	24 and 26.	*b* 4·2 and *b* 0·7. *h*
Jask	6 and 7.	95·6 and —0·7. *d*
Mesbed	3 and 5.	*d* 26·51 and 26·49.
Footnotes—*Read* "*h*—mean of 23 days" *for* "*b*—mean of 23 days" and "*b*—mean of 29 days" *for* "*a*—mean of 30 days."		
Page 96.		
Goalundo	12 to 15.	·988, +·019, 89 and +4.
JULY.		
Pages 100-101.		
Mergui	15, 17, 24 to 30 and 33.	78·9, 76·5, 7·5, +0·7, 7·3, 26·67, —4·78, 2·43, 31 and 4·1.
Yamethin	30.	22. *c*
Saugor Island	33.	10·4.
Jalpaiguri	18 to 23.	·930, —·021, ·954, 91, —1 and 79.
Footnote—*Omit* "*a*—mean of 30 days."		
Page 102.		
Cuttack	*Omit* the figures in columns 10 to 13.	
Ranchi	3 to 5, 24 to 26, 33 and 34.	27·410, +·011, 27·343, 7·3, —0·9, 6·6, 4·2 and —1·4.
Benares	3, 4, 15 and 20.	29·251, +·001, 86·9 and ·968.
Lahore	5.	28·727.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
JULY—*contd.*		
Pages 104-105.		
Skardu	10 and 11.	61·8 and +0·1.
Quetta	*Omit* the figures in column 25.	
Chaman	16, 18, 19, 21 and 22.	70·4, ·557, +·181, 46 and +14.
Las Bela	3.	29·223.
Hyderabad	16, 18 and 19.	78·1, ·855 and +·022.
Page 107.		
Hyderabad	33 and 34.	5·8 and —0·9.
Pages 108-109.		
Trichinopoly	18, 19 and 40 to 42.	·693, —·012, 11, 16 and 4.
Page 110.		
Muscat	12.	82.
Page 112.		
Goalundo	12 to 15.	1·064, +·088, 91 and +5.
AUGUST.		
Pages 116-117.		
Yamethin	28.	—1·55.
Asansol	33.	4·8.
Pages 118-119.		
Cuttack	*Omit* the figures in columns 10 to 13.	
Ranchi	3 to 5, 15, 24 to 26, 33, 34, 39, 40, 42, 45, 46, 47, 49 and 51.	27·429, —·016, 27·358, 78·8, 6·8, —1·5, 6·5, 4·8 *e*, —0·3, 5, 5, 5, 1, 4, 5, 3 and 4.
Daltonganj	7.	—1·1.
Footnote—*Insert* "*e*—mean of 26 days."		
Page 121.		
Dalbandin	25.	—1·1. *h*
Las Bela	26.	1·5. *a*
Deesa	26.	8·4.
Footnote—*Insert* "*h*—mean of 23 days."		
Pages 122-123.		
Raipur	5.	28·523.
Gulbarga	24 and 25.	7·6 and +0·7.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
AUGUST—*contd.*		
Pages 124-125.		
Trichinopoly	18, 19 and 40 to 42.	·702, —027, 2, 20 and 9.
Darjiling	6, 7, 10, 11, 14, 16, 18, 19, 33, 34, 37, 39 and 43.	66·0, —0·5, 59·8, +2·2, 60·9, [c] 60·5, ·530, +·011, 4·2, +2·1, 18, 2 and 9.
Drosh	10 and 11.	[d] 69·7 and —2·5.
Footnote—*Insert* "*c*—mean of 28 days" and "*d*—mean of 27 days" and *omit* "*a*—mean of 30 days" on page 124.		
Page 128.		
Goalundo	12 to 15.	1·015, +·054, 87 and +2.
SEPTEMBER.		
Page 133.		
Burdwan	25.	6·9.
Pages 134-135.		
Ranchi	3 to 5, 18, 19, 24, 25, 33 and 34.	27·573, +·015, 27·484, ·779, +·024, 6·9, +0·8, 3·9 and —0·8.
Motihari	3 to 7.	29·483, +·004, 29·381, 87·3 and —2·3.
Pages 136-137.		
Chhor	3.	29·662.
Drigh Road (Karachi)	24.	6·5.
Pages 140-141.		
Trichinopoly	18, 19, 41 and 42.	·772, +·015, 17 and 5.
Cherat	24.	[b] 2·6.
Drosh	3, 14, 18, 19, 21 and 22.	25·250, 70·9, ·470, +·093, 63 and +11.
Page 142.		
Ormara	3.	29·694.
Seistan	10 and 11.	69·6 and +3·3.
Page 144.		
Goalundo	12 to 15.	·981, +·026, 87 and +5.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
OCTOBER.		
Pages 148-149.		
Gwa	9.	10; 14; 28.
Yamethin	10, 11 and 13.	71·7, —2·1 and 23, 24.
Gauhati	24 and 25.	6·0 and +0·6.
Chittagong	6 and 7.	87·9 and +1·2.
Sandheads	28 to 32.	[b] —2·00, 1·05, 28, 5 and —0·1.
Pages 150-151.		
Cuttack	29 to 32.	>8·00, 4, 8 and +1·8.
Ranchi	5, 14, 33 and 34.	[c] 27·655, 73·4, 1·9 and —1·5.
Hazaribagh	5.	27·806.
Ludhiana	25.	—0·2.
Footnote—*Insert* "*c*—mean of 28 days."		
Page 152.		
Jaipur	10 and 11.	64·3 and +0·5.
Page 154.		
Umaria	19.	18, 19.
Pages 156-157.		
Trichinopoly	18, 19, 21 and 22.	·779, —·025, 73 and —6.
Simla	29.	0·25.
Drosh	3, 14, 18, 19, 21 and 22.	25·407, 60·9, ·251, +·015, 40 and —6.
Page 158.		
Charbar	3.	29·899.
Ispahan (*d*)	5.	[e] 24·41.
Page 160.		
Goalundo	12 to 15.	·910, +·070, 85 and +8.
NOVEMBER.		
Pages 164-165.		
*Port Blair	10, 11, 13, 51 and 52.	77·9, +0·8; 2, 28, 29; 1 and 0.
Mergui	34.	+3·1.
Gwa	33.	2·1.
Sandoway	26.	4·0.
Monywa	18, 19, 24, 25, 33 and 34.	·692, +·006, 1·9, —3·1, 2·4 and +1·0.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
NOVEMBER—*contd.*		
Pages 166-167.		
Chaibasa . .	9.	4 days.
Daltonganj . .	17 to 20, 33 and 34.	65·7, ·499, +·054, ·491, 1·6 and +0·3.
New Delhi . .	9.	3, 6.
Page 168.		
Miranshah . .	16.	43·7.
Pages 172-173.		
Trichinopoly . .	18 and 19.	·784 and +·027.
Rentichintala .	*Omit* the figures in column 3.	
Cherrapunji . .	30.	17.
Drosh . . .	3, 14, 18, 19, 21 and 22.	25·485, 48·6, ·149, —·005, 42 and —7.
Page 176.		
Goalundo . .	12 to 15.	·654, +·025, 81 and +5.
DECEMBER.		
Pages 180-181.		
Sandoway . .	18.	·569.
Toungoo . .	16 to 19.	63·8, 69·7, ·548 and —·026.
Sandheads . .	25.	—0·6.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
DECEMBER—*contd.*		
Pages 182-183.		
Puri . . .	30.	22.
Angul . . .	*Omit* the figures in columns 12 and 13.	
Ranchi . . .	16.	54·7.
Bahraich . .	24 and 25.	2·6 and +1·6.
Ambala . .	30.	20.
Pages 184-185.		
Khushab . .	13.	23.
Khanpur . .	24.	3·9.
Srinagar . .	50 and 52.	4 and 4.
Dera Ismail Khan .	13.	26, 27, 29.
Pages 186-187.		
Jubbulpore . .	14.	55·9.
Chanda . .	24 and 25.	2·0 and +0·3.
Jagdalpur . .	4, 7, 19, 25 and 28.	—·025, +2·1, —·013, —1·6 and —0·16.
Page 188.		
Trichinopoly . .	18, 19, 21 and 22.	·697, +·027, 79 and +2.
Murree . . .	9.	31.
Drosh . . .	3, 14, 18, 19, 21 and 22.	25·403, 39·7, ·155, +·010, 62 and —2.
Page 192.		
Goalundo . .	12 to 15.	·515, +·066, 84 and +6.
Kailang . .	3 to 8.	2·13, +1·11, 0·56, 20, 7 and +4·4.

ERRATA TO ANNUAL SUMMARY, PART A, 1936.

Page A 1, line 25, *for* 'rom' *read* 'from'

Page A 2, line 51, *for* 'every' *read* 'very'

Pages A 6-A 7.		
Mergui . . .	17.	75·6.
Yamethin . .	38.	50.
Dhubri . . .	18.	·699.
Jalpaiguri . .	13 and 20.	I and ·685.
Pages A 8-A 9.		
Ranchi . . .	18, 19, 24, 25, 26, 39, 40, 42, 44, 46, 47, 49 and 51.	·528, —·001, 4·1, +0·2, 4·7, 45, 43, 36, 59, 19, 27, 22 and 75
Gaya . . .	27.	58·42.
Cawnpore . .	7.	0.
Dehra Dun . .	10.	59·7.
Lahore . . .	34.	+0·6.

Reference.	Column.	Replace the existing figures, if any, by
1	2	3
Page A 10.		
Montgomery . .	3.	29·194.
Multan . . .	3 and 4.	29·347 and —·012.
Bahawalpur . .	3.	29·377.
Khanpur . .	3.	29·464.
Jacobabad . .	17 to 20.	71·9, ·561, +·021 and ·534.
Sukkur . . .	10.	68·1
Naushahro . .	14.	75·0.
Page A 13.		
Deesa . . .	47.	8.
Karwar . .	30.	VI.
Page A 15.		
Calingapatam .	43.	9.
Page A 18.		
Seychelles—year .	22.	—1.
Minicoy—September	18.	·865.
Page A 20-A 21.		
Thaton—February .	18 and 20.	·596 and ·623.
Thaton—March .	18 and 20.	·716 and ·676.
Thaton—May .	28.	—2·63.
Thaton—June .	28.	+2·50.
Thaton—August .	18 and 20.	·846 and ·862.
Page A 35.		
Drigh Road—April	17.	9.
Page A 37.		
Bangalore—July .	5.	12.
Page A 39.		
Dacca—July . .	16-17.	4·4.
Dacca—August .	16-17.	3·4.
Page A 46.		
Madras Coast, North	50.	+1·19.

MGIPC—M—VIII-3-188—30-4-38—290.

DGO. 9.36A
290

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

THE BOMBAY BRANCH OF THE ROYAL ASIATIC SOCIETY

INDIA WEATHER REVIEW, 1936

ANNUAL SUMMARY

PART A.

SUMMARY OF WEATHER WITH TABLES

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Weather and rainfall of 1936	A1	Table VIII—Hourly wind velocities	A39
Table I—Divisional and sub-divisional means	A5	Table IX—Visibility of the Nilgiris from Kodaikanal	A41
Tables II—VI—Abstract of observations at individual stations	A6	Tables X—XIV—Divisional and sub-divisional means of rainfall and rainy days	A42
Table VII—Sunshine and Nocturnal Radiation	A34	Table XV—Days of Rainfall of 10″ and above	A51

Published by Authority of the Government of India

UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.,

Director General of Observatories.

PUBLISHED BY MANAGER OF PUBLICATIONS, DELHI.
PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, NEW DELHI.
1938.

Price Rs. 3-14 or 6s. 6d.

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INDIA WEATHER REVIEW, 1936

ANNUAL SUMMARY

PART A.

Weather and Rainfall of 1936.

Summary.—The cold weather period, January and February, was excessively rainy over Assam, the eastern half of the Peninsula and along and near the northwest frontier, and unusually dry over the greater part of the Gangetic plain. Marked thunderstorm activity in the Peninsula and the central parts of the country in March and May, along with an early monsoon in northeast India, caused, on the whole, an excess of rainfall during the hot weather period. The monsoon had no pronounced breaks but the precipitation of the period, June to September, was unevenly distributed, there being several spells of heavy rain in the Gangetic plain, giving rise to serious floods, and scanty rains in the Deccan and Gujarat. During the retreating southwest monsoon period, October to December, rainfall was relatively abundant in Bihar, northwest India, the central parts of the country and the Deccan.

I.—*The Cold Weather Period, January and February.*—In ***January***, rainfall was deficient over a large part of the country despite seven westerndisturbances affecting northern India.

During ***February***, the marked activity of thunderstorms associated with the passage of eight western disturbances across north India caused an abundance of rainfall over the greater part of the country.

In January two well marked cold spells occurred in north and central India. The first one lasted from the middle of the second week to the end of the third week and slowly travelled from the North-West Frontier Province to Upper Burma. The second spell lasted from the 25th to 27th and extended as far south as the north Bombay Deccan.

The total rainfall during the cold weather period was in large excess in Upper Burma, Orissa, the North-West Frontier Province, Berar, the east Central Provinces, Hyderabad, the Madras Deccan and the north Madras coast, in slight to moderate excess in Lower Burma, Assam, the east United Provinces, the southwest Punjab, Baluchistan, Sind, the west Central Provinces, the Bombay Deccan, Mysore and southeast Madras, normal in the east and north Punjab and east Central India, in slight to moderate defect in Bengal, Chota Nagpur, Bihar, the west United Provinces, Rajputana and Malabar, and in large defect elsewhere, no rain having fallen in the Konkan.

The mean minimum temperature of the period as a whole was above normal in Orissa, the Central Provinces, Hyderabad, Mysore and the Madras Presidency. Skies were more clouded than usual in Burma, Bengal, Orissa, Bihar, Central India, the Central Provinces and the Peninsula. Humidity was in excess in Hyderabad and in defect in Bihar.

II.—*The Hot Weather Period, March to May.*—***March*** was characterised by a marked thunderstorm activity in south Madras, Mysore and the central parts of the country, particularly towards the end of the month. Six western disturbances affected the weather over northwest India during the month and the associated snowfall in Kashmir was heavy and caused avalanches which were responsible for loss of life and breakdown of telegraphic communications.

In ***April***, rainfall was markedly below normal over northwest India despite the passage of seven western disturbances. Drought also prevailed over most of the Peninsula and northeast India. The rainfall in Burma was above normal owing to the passage of a severe cyclone across Arakan, which caused great loss of life and property.

During ***May***, six western disturbances passed across northwest India, but the associated rainfall over the region was in large defect. The passage of a severe storm from the central Bay to east Bengal at the end of the third week caused an early advent of monsoon to Burma and northeast India, accompanied by widespread and very heavy rain in Assam and east Bengal, which caused severe floods in the Brahmaputra and other rivers of Assam. The Arabian Sea Branch of the monsoon was also established in Malabar by the 20th May and extended into the Konkan towards the end of the month. In association with these monsoon currents there was unusual thunderstorm activity in the central parts of the country and the Peninsula.

The temperatures were generally below normal in northwest India and the central parts of the country in the first fortnight of March and over the country as a whole during the first half of April. The widespread thunderstorm rain in the Central Provinces brought down day temperatures there by 15 to 20 degrees below normal on the last two days of March. In Upper Burma, day temperatures were as much as 25° below normal on the 6th April. In May, the day temperatures were considerably above normal in the Punjab, Kashmir and the northwest frontier almost throughout the month. A number of cases of heatstroke occurred in the Punjab and the adjoining parts of the United Provinces during the later half of the month.

The total rainfall of the hot weather period was in large excess in Orissa, Berar, north Hyderabad, Malabar and the north Madras coast, and in slight to moderate excess in Burma, Bengal, Chota Nagpur, the west United Provinces, east Central India, the west Central Provinces, south Hyderabad, southeast Madras and the Madras Deccan ; it was in slight defect in the east and north Punjab, the Konkan and the Bombay Deccan, and in large defect in Baluchistan, Sind, west Rajputana and Gujarat. In the remaining subdivisions the rainfall was normal.

The mean cloud amount of the period was above normal in Orissa, Mysore and the Madras Presidency and below normal in Central India and Rajputana. Humidity was in defect in Bihar, the North-West Frontier Province and Rajputana.

III.—*The Southwest Monsoon Period, June to September.*—The Arabian Sea branch of the monsoon was established in Malabar on the 20th May. It advanced northwards as a rather weak and shallow current but strengthened somewhat along the west coast in early ***June***, and also entered the Peninsula temporarily. Early in the third week of June it again strengthened on the west coast and remained fairly vigorous over the Peninsula during the last ten days of the month.

Under the influence of a storm which formed in the north Bay on the 11th, the Bay monsoon extended into the central parts of the country, Gujarat and temporarily to the United Provinces. A strengthening of the monsoon current towards the end of the third week led to the establishment of the monsoon in the United Provinces and its extension into northwest India.

A depression formed on the 26th June near the Sandheads and strengthened the monsoon from the Konkan to Orissa, while another depression, which appeared over the Central Provinces on the 28th and travelled westwards, strengthened it generally in northwest India and caused its extension into Sind.

Severe floods were reported from Assam, the Central Provinces and the United Provinces causing damage to life and property.

The monsoon was active during ***July*** in northeast India, the United Provinces, the east and north Punjab and in and around the Central Provinces. This activity was mainly due to (1) two depressions which passed inland from the Bay of Bengal on the 3rd and 23rd of the month, (2) two land depressions which appeared near Lucknow on the 7th and 27th and (3) a low pressure wave which passed inland from the northwest angle of the Bay on the 18th. In particular, the two Lucknow depressions were responsible for heavy rain in the United Provinces, as a result of which severe floods occurred in the Ramganga, Gumti, Rapti and Gogra rivers and caused considerable damage to a number of villages and towns.

During the first five days of ***August***, the monsoon was strong in and around the Central Provinces and caused widespread and locally heavy rain there. The following were the chief features of the weather during the next three weeks :—

(1) The marked activity of the seasonal trough of low pressure over the Gangetic plain between the 5th and 10th. This resulted in strong monsoon in the United Provinces and northeast India, with every heavy rain in the east United Provinces leading to serious floods there once again.

(2) Two depressions, which formed in the Bay of Bengal off the Orissa coast, on the 16th and the 24th respectively and crossed the Orissa coast. Both filled up over the Central Provinces, the first on the 18th August and the second on the 1st September. These gave abundant rainfall over the Central Provinces and Orissa. The first of these also strengthened the monsoon over the Peninsula as a whole, while the second caused a spell of strong monsoon over the north Madras coast and north Hyderabad.

But for these two spells and another along the west coast and the north Deccan during the first week, the monsoon was generally weak over the Peninsula during the month. The

Bay branch of the monsoon was fairly active in Lower Burma. There were spells of strong monsoon in northwest India, particularly along and near the western Himalayas, between the 3rd and the 5th, the 10th and the 12th, and the 17th and the 22nd.

During ***September***, the monsoon was strong from Bengal to the east Punjab and in and around the west Central Provinces on the first two days. After the 3rd, it weakened in Bengal and Assam, but continued to be active from Chota Nagpur to the west United Provinces, and in the Central Provinces till the 5th. In association with a depression which forming in the north Bay of Bengal off the Orissa coast on the 5th, travelled across the central parts of the country and merged into the seasonal low over northwest India after four days, the monsoon was strong in Orissa, the Central Provinces, Gujarat and northwest India generally. It continued to be active over northern and central India till the 12th after which its activity was confined to northeast India.

The Arabian Sea monsoon was generally weak over the Peninsula during the first half of the month, while the Bay branch was active during the first week in Burma and weakened thereafter. By the middle of the 3rd week the transition type of weather began to set in and thunderstorm activity commenced in the Peninsula and northeast India. This activity increased in the Peninsula after the 23rd and in consequence part of the Deccan partially made up its deficiency of rains during the monsoon proper.

Day temperatures were markedly below normal in the United Provinces during the first week of June and in the west United Provinces, the Punjab, Kashmir and the North-West Frontier Province during the last week, at some places the thermometer going down to more than 25° below normal.

The spell of markedly low day temperatures continued over the Punjab, Kashmir and the North-West Frontier Province on the first two days of July and in the Punjab between the 5th and 9th. In August, day temperatures were considerably below normal over northwest India between 10th and 14th, and again between 20th and 23rd, and were above normal in the Punjab, Kashmir and the North-West Frontier Province on the last three days of the month.

The total rainfall during the monsoon season was in large excess in the east United Provinces and in slight to moderate excess in the Bay Islands, Orissa, Chota Nagpur, Bihar, the west United Provinces, the Punjab, east Central India and the Central Provinces (excluding Berar), it was in slight to moderate defect in Baluchistan, Sind, Gujarat and the Deccan. Over the rest of the country the rainfall was normal.

The mean maximum temperature of the period was below normal in the United Provinces. Skies were more clouded than usual in Orissa and the United Provinces. Humidity was in excess in the North-West Frontier Province.

IV.—*The Period of Retreating Southwest Monsoon, October to December.*—During ***October***, two severe cyclonic storms formed in the Bay of Bengal, one in the first week and the other in the fourth week. The former which developed in the central Bay and crossed the Orissa coast recurved via Chota Nagpur to east Bengal. It caused widespread and locally heavy rain in Burma and northeast India including Orissa. The second formed in the south Bay and crossed the Circars coast causing widespread and locally heavy rain along the east Madras and Orissa coasts and in the Central Provinces. The northeast monsoon set in over the Bay of Bengal early in the third week of the month and was established towards the middle of that week. A western disturbance passed across northwest India but the associated rainfall was scanty.

During the first week of ***November*** a depression formed in the south Bay of Bengal and a cyclonic storm in the southeast Arabian Sea. The former crossed the Coromandel coast near Madras while the latter crossed the Kathiawar coast. These two disturbances caused widespread and locally heavy rain in the Peninsula, Central India and the west Central Provinces. Eight western disturbances were responsible for an excess of rain in the North-West Frontier Province, Kashmir and Rajputana.

Nine western disturbances passed across the country during ***December*** causing abundant rainfall over the greater part of northern India.

Day temperatures were markedly below normal from Bihar to Berar on the 30th and 31st October and in east Rajputana, Central India and the east United Provinces generally between the 10th and 14th November. Night temperatures were markedly above normal in and around the central parts of the country between the 18th and 21st and in Baluchistan and Sind on the 29th and 30th November. In December the minimum temperatures were markedly above normal over northwest India on most days between the 1st and 3rd and again between the 10th and 16th. Both maximum and minimum temperatures were generally below normal in and around Central India between the 27th and 31st.

The total rainfall during the period October to December was normal in Upper Burma, Assam, east Rajputana, the Konkan, southeast Madras and the Madras Deccan, and in slight to moderate defect in the Bay Islands, Lower Burma, Bengal, the east United Provinces, west Rajputana, Mysore and Malabar ; it was in slight to moderate excess in Orissa, Bihar, the west United Provinces, the east and north Punjab, Kashmir, the east Central Provinces and the north Madras coast and in large excess over the rest of the country.

The mean minimum temperature of the period was above normal in Sind, the Central Provinces, Hyderabad and Mysore. Skies were more clouded than usual over the country outside Burma, Assam and Bengal. Humidity was in excess in the North-West Frontier Province.

V.—*Year.*—Taking the year as a whole, rainfall was in slight to moderate excess in Orissa, Chota Nagpur, Bihar, the United Provinces, the southwest Punjab, east Central India, the Central Provinces and the north Madras coast, in slight to moderate defect in Sind, west Rajputana, Gujarat and the Bombay Deccan, and normal elsewhere. Averaged over the plains of India, the year's total rainfall was in excess by 7 per cent.

TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS FOR THE YEAR 1936.

	RAINFALL.*				DEPARTURE FROM NORMAL OF				
							8 hrs. I. M. T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	"	%	
Division.									
1. Burma	108·99	112·75	—3·76	—3	—0·2	0	—·016	—2	+0·5
2. Assam	87·95	88·65	—0·70	—1	+0·1	+0·7	0	—1	+0·5
3. Bengal	79·97	77·66	+2·31	+3	+0·5	+0·3	—·011	—2	+0·6
4. Orissa	77·56	56·58	+20·98	+37	—0·2	+0·9	+·015	+1	+1·3
5. Bihar	60·94	50·41	+10·53	+21	—0·4	—0·1	—·009	—2	+0·8
6. United Provinces	56·42	41·57	+14·85	+36	—0·8	+0·2	+·010	+1	+0·9
7. Punjab	24·65	18·99	+5·66	+30	—0·7	+0·4	+·008	—1	+0·2
8. North-West Frontier Province	11·46	11·29	+0·17	+2	—0·1	—0·1	—·019	+2	—0·2
9. Sind	4·07	5·67	—1·60	—28	—0·3	+0·5	+·012	0	+0·3
10. Rajputana	17·95	20·39	—2·44	—12	—0·6	—0·5	—·011	—2	+0·1
11. Bombay	32·76	37·81	—5·05	—13	+0·1	+0·7	—·011	—2	+0·5
12. Central India	37·03	37·45	—0·42	—1	—0·1	+0·1	—·001	—1	+0·1
13. Central Provinces	59·61	46·80	+12·81	+27	—0·7	+1·0	+·015	+2	+0·8
14. Hyderabad	31·26	33·01	—1·75	—5	—0·5	+1·1	+·018	+3	+0·8
15. Mysore	28·38	31·74	—3·36	—11	+0·9	+1·5	+·014	+1	+0·8
16. Madras	50·51	48·62	+1·89	+4	—0·6	+1·2	+·004	0	+1·1
Mean of India	53·68	51·11	+2·57	+5	—0·3	+0·4	—·001	—1	+0·6
Sub-Division.									
1. Bay Islands	124·00	116·42	+7·58	+7	—1·4	+0·2	—·015	—2	+0·9
2. Lower Burma	146·13	149·31	—3·18	—2	—0·2	+0·2	—·015	—2	+1·0
3. Upper Burma	45·25	50·07	—4·82	—10	—0·2	—0·2	—·017	—2	0
4. Assam	87·95	88·65	—0·70	—1	+0·1	+0·7	0	—1	+0·5
5. Bengal	79·97	77·66	+2·31	+3	+0·5	+0·3	—·011	—2	+0·6
6. Orissa	77·56	56·58	+20·98	+37	—0·2	+0·9	+·015	+1	+1·3
7. Chota Nagpur	62·21	51·72	+10·49	+20	—1·0	—0·4	+·010	+1	+0·9
8. Bihar	60·47	49·99	+10·48	+21	0	+0·1	—·022	—4	+0·8
9. United Provinces, East	60·07	41·61	+18·46	+44	—0·6	+0·8	+·012	+2	+1·0
10. Do. West	53·27	41·54	+11·73	+28	—1·0	—0·4	+·010	0	+0·7
11. Punjab, East and North	35·38	27·14	+8·24	+30	—0·7	+0·2	+·006	—1	+0·4
12. Do., Southwest	12·38	9·74	+2·64	+27	—0·6	+0·8	—·013	—1	—0·3
13. Kashmir	34·94	26·96	+7·98	+30	—0·8	+1·6	+·006	+2	+0·1
14. North-West Frontier Province	11·46	11·29	+·17	+2	—0·1	—0·1	—·019	+2	—0·2
15. Baluchistan	9·96	7·68	+2·28	+30	—0·5	+1·7	+·018	+2	+0·3
16. Sind	4·07	5·67	—1·60	—28	—0·3	+0·5	+·012	0	+0·3
17. Rajputana, West	15·40	12·70	+2·70	+21	—0·1	0	—·016	—1	—0·1
18. Rajputana, East	19·25	24·22	—4·97	—21	—0·9	—0·9	—·007	—3	+0·2
19. Gujarat	18·35	24·15	—5·80	—24	—0·1	+0·7	—·023	—3	+0·6
20. Central India, West	27·95	31·17	—3·22	—10	—0·9	+0·4	—·035	—4	+0·5
21. Do. do., East	46·14	43·75	+2·39	+5	+0·6	—0·3	+·034	+3	—0·2
22. Berar	42·68	32·19	+10·49	+33	—1·1	+1·1	+·003	+2	+0·7
23. Central Provinces, West	54·55	46·77	+7·78	+17	—0·7	+0·7	+·017	+3	+0·9
24. Do. do., East	75·68	54·14	+21·54	+40	—0·4	+1·3	+·018	+1	+0·7
25. Konkan	97·61	96·93	+0·68	+1	—0·2	+0·4	+·011	+1	+0·1
26. Bombay-Deccan	21·92	28·69	—6·77	—24	+0·4	+0·8	—·007	—1	+0·7
27. Hyderabad, North	33·40	34·58	—1·18	—3	—0·8	+1·7	+·009	+3	+1·1
28. Do., South	29·09	31·45	—2·36	—8	—0·2	+0·7	+·025	+2	+0·5
29. Mysore	28·38	31·74	—3·36	—11	+0·9	+1·5	+·014	+1	+0·8
30. Malabar	119·85	105·46	+14·39	+14	—0·2	+0·8	+·018	0	+1·0
31. Madras, Southeast	35·59	39·47	—3·88	—10	—0·7	+1·4	—·011	—1	+1·4
32. Do. Deccan	18·25	25·70	—7·45	—29	—1·1	+1·4	+·001	—1	+0·9
33. Do. Coast, North	50·73	39·65	+11·08	+28	—0·7	+0·9	+·019	+1	—0·7

* Based on data from meteorological observatories only as in Monthly Weather Reports. For fuller data see tables X to XIV.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED A

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, inches.			Relative humidity, %		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17hrs	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bay Islands.																						
*Port Blair	59/261	29·775	—·006	29·513	85·6	—1·5	92	V	77·1	+0·1	70	I, II	80·7	79 9	76·7	75·3	·864	—·015	·813	83	—1	80
Lower Burma																						
Victoria Point	157	29·699	—·003	29·628	85·1	—0·6	93	III, IV	74·8	—0·1	69	I, XI	78·7	80·4	75·1	75·1	·820	—·010	·8·0	84	0	78
Mergui	66	29·805	+·008	29·725	86·2	—1·2	95	IV	72·7	+0·6	60	I	77·4	81·0	74·3	76·6	·806	—·025	·803	86	—1	77
Tavoy	19	29·845	—·005	29·765	88·4	+0·5	97	III	71·7	0	56	I	76·5	80·5	73·6	75·5	·792	—·013	·810	87	—1	79
Amherst	71	29·784	...	29·697	86·8	...	95	IV, XII	73·7	...	64	I	78·1	81·3	74·1	75·8	·787	...	·818	82	...	77
Rangoon	18	29·822	—·009	29·736	89·9	+0·6	99	III, IV	73·4	+0·4	61	I	77·0	82·9	73·8	74·9	·795	—·008	·758	85	—2	69
Tharrawaddy	49	29·780	...	29·693	90·7	...	105	IV	70·3	...	52	I	76·1	82·6	73·6	75·1	·805	...	·776	88	...	72
Bassein	26	29·820	+·001	29·739	89·0	+0·8	101	IV	72·1	—0·5	56	I	78·1	82·0	74·4	75·1	·808	—·016	·781	83	—5	72
Diamond Island	41	29·787	—·010	29·721	84·6	—0·7	91	V	76·9	+1·2	69	I, IV	79·9	80·7	75·6	75·6	·829	—·003	·818	81	+1	78
Gwa	11	29·821	...	29·747	83·8	...	95	IV	70·1	...	51	I	76·0	81·0	73·0	76·0	·790	...	·829	86	...	79
Sandoway	28	29·805	...	29·727	88·2	...	97	IV	68·3	...	44	I	75·5	79·4	72·4	75·1	·772	...	·821	86	...	81
Toungoo	158	29·686	0	29·582	89·9	0	103	IV	70·6	+0·2	53	I	75·5	82·5	71·7	74·3	·745	—·035	·741	82	—4	69
Kyaukpyu	18	29·803	—·001	29·725	84·4	—0·3	93	IV	73·5	+0·7	58	I	77·5	80·5	74·6	75·1	·827	+·005	·807	87	+1	77
Akyab	29	29·805	+·007	29·722	85·1	—0·7	94	V	76·7	—1·0	48	I	75·9	79·8	72·5	74·6	·767	—·034	·793	84	—5	77
Upper Burma																						
Minbu	168	29·661	—·003	29·544	91·2	—0·2	107	IV	71·5	+0·1	51	I, XII	76·9	86·1	70·3	72·6	·679	—·019	·628	71	—4	53
Yamethin	644	29·183	0	29·072	90·1	—1·0	104	IV	69·8	0	49	I	75·2	82·7	70·0	72·7	·679	—·022	·670	76	—3	61
Mandalay	252	29·580	0	29·457	90·1	...	105	IV	69·0	...	45	I	76·2	83·9	70·2	72·6	·671	...	·657	74	...	58
Monywa	267	29·570	—·005	29·442	92·5	+0·9	108	V	70·7	—0·5	49	I	75·5	85·4	70·5	74·3	·695	—·007	·707	78	+1	59
Lashio	2,802	27·064	+·010	26·962	81·1	—0·5	93	IV, V	59·8	—0·7	40	I	65·5	72·7	62·1	65·5	·533	—·026	·551	82	—4	68
Bhamo	386	29·438	—·009	29·326	84·8	—1·1	101	V	64·9	0	41	I	70·1	78·3	67·4	71·8	·659	—·019	·706	87	—2	73
Myitkyina	476	29·351	—·008	29·237	84·7	+0·6	101	V	65·5	0	44	I	70·4	78·0	67·2	71·2	·649	—·007	·689	85	—2	72
Assam																						
Dibrugarh	348	29·490	0	...	81·7	+0·9	98	VI	65·8	+0·6	44	I	70·0	...	67·7	...	·676	+·008	...	89	—3	...
Sibsagar	317	29·501	—·015	29·393	82·9	+1·6	99	VII	66·1	+0·4	44	I, XII	70·2	77·0	68·2	71·6	·696	—·002	·725	91	—3	76
Tezpur	258	29·570	—·012	29·454	84·4	+1·2	98	VI, VII	67·4	+0·4	47	I	71·5	78·6	68·6	71·5	·686	+·006	·699	86	—3	70
Gauhati	196	29·627	—·018	29·512	84·8	+0·3	98	V	67·4	+1·1	44	I	71·7	79·0	68·8	71·9	·697	—·002	·703	87	—1	70
Dhubri	115	29·699	—·005	29·595	82·4	—0·4	95	III, IV, V	68·3	+0·3	46	I	71·9	79·2	69·1	71·4	669.	—·004	·681	85	—2	68
Silchar	96	29·743	+·004	29·626	86·0	—0·1	98	IX	67·6	+0·1	43	I	71·7	79·7	69·3	73·4	·713	—·011	·760	89	+2	73
Srimangal	69	29·753	—·003	29·650	...	...	99	IV	65·8	+0·7	37	I	72·3	78·4	69·8	73·1	·727	+·009	·757	88	0	77
Bengal																						
Cox's Bazar	36	29·783	+·005	29·706	84·7	—0·2	94	IV	69·1	—0·5	50	I	76·3	79·4	72·1	73·9	·754	—·024	·766	82	—4	76
Chittagong	87	29·737	+·002	29·649	86·2	+1·3	97	IV	69·8	+0·5	47	I	75·1	79·3	71·1	73·4	·727	—·028	·755	81	—5	74
Noakhali	22	29·784	—·012	29·690	84·7	+0·1	97	IV	72·1	+0·8	52	I	76·1	80·2	72·8	74·3	·781	+·004	·787	84	—3	75
Comilla	37	29·772	—·008	29·673	88·0	+1·9	104	IV	69·1	+0·4	43	I	75·5	80·6	71·7	73·6	·748	—·014	·749	82	—4	71
Narayanganj	26	29·775	—·009	29·679	87·4	+1·2	103	IV	70·7	+0·2	47	I	75·9	81·5	71·8	73·1	·747	—·022	·715	81	—4	64
Mymensingh	62	29·756	0	29·650	85·8	+1·0	101	IV	68·3	—0·6	44	I	73·3	81·3	70·4	73·0	·731	—·006	·714	86	—1	64
Faridpur	27	29·772	—·015	29·671	86·8	+1·4	104	IV	69·3	+0·3	43	I	75·0	80·9	71·5	73·2	·752	—·023	·732	84	—3	69
Barisal	11	29·785	—·005	29·697	86·7	+0·9	99	IV	71·0	+0·7	49	I	76·4	81·0	72·4	73·5	·763	—·031	·735	82	—3	69
Khulna	16	29·789	+·005	29·691	88·9	+0·5	102	IV	70·9	+1·3	47	I	77·5	80·0	73·3	74·0	·782	+·017	·772	80	0	74
Jessore	26	29·782	+·006	29·673	87·5	...	104	IV	67·6	...	38	I	76·1	78·8	72·9	73·3	·792	+·021	·737	85	+1	76
Satkhira	...	29·783	+·004	29·684	88·7	+0·7	107	IV	69·7	+0·7	43	I	76·9	82·2	72·8	74·1	·775	—·019	·752	81	—3	68
Calcutta	21	29·770	—·005	29·671	88·2	+1·3	107	IV	71·8	+1·1	50	I	75·5	82·9	72·3	74·1	·775	+·007	·742	85	+2	66
Sangor Island	10	29·770	—·011	29·682	84·7	—0·7	97	IV	73·8	+0·4	51	I	78·2	80·9	74·1	75·1	·804	—·023	·808	81	—4	75
Sandheads	25	29·763	...	29·683	...	...	...	...	...	...	...	...	80·6	81·9	75·8	75·9	·834	—·011	·824	79	—1	75
Midnapore	149	29·638	—·003	29·533	89·4	—0·4	110	IV	70·7	+0·2	47	I, XII	75·6	84·5	70·7	73·2	·714	+·001	·685	78	+2	59
Burdwan	99	29·684	—·011	29·573	88·9	+0·1	109	IV, V	70·1	—0·3	45	I	74·5	83·5	70·3	72·8	·729	+·013	·689	81	+2	61
Krishnagar	48	29·744	—·006	29·641	89·6	+1·3	110	V	68·5	—0·4	41	I	76·2	82·6	71·4	73·1	·782	—·010	·710	78	—4	64
Asansol	414	29·361	—·006	29·257	89·2	+0·1	114	V	69·0	+0·3	47	I, XII	74·6	84·9	68·5	71·1	·645	—·035	·596	73	—2	51
Berhampore	62	29·733	—·003	29·619	88·5	+0·9	111	V	68·3	—1·3	42	I	75·6	82·8	69·9	71·8	·702	—·026	·671	76	—7	60
Bogra	63	29·735	—·008	29·626	87·0	+0·8	107	IV	67·9	—0·2	42	I	74·0	81·9	69·8	72·0	·705	—·015	·677	80	—3	62
Malda	108	29·697	+·017	29·591	86·7	—0·3	109	V	67·9	+0·3	41	I	74·6	82·4	69·4	71·8	·680	—·028	·660	76	—5	60
Dinajpur	123	29·666	—·012	29·562	86·1	+0·1	103	IV	67·7	+0·8	41	I	72·2	82·4	68·0	72·0	·660	—·034	·669	80	—3	60
Jalpaiguri	271	29·528	—·015	29·421	83·8	—0·5	95	VII	66·1	—0·1	41		71·3	79·2	67·6	71·3	·665	—·020	·681	84	—2	66

*8 hours observations at surface observatory (old site), height 59 feet, 17 hours observations at combined observatory (new site), height 261 feet.

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1936.

Cloud amount (tenths of sky.)			Rainfall, inches.				Number of rainy days (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds during the year from																	STATION.
											8 hrs. L. M. T.									17 hrs. I. S. T.									
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall during the year in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
6·9	+1·0	7·9	124·00	+7·58	4·93	VII	138	−0·6	5·5	−0·1	44	61	34	8	22	56	49	45	47	4	67	102	16	13	94	60	8	2	**Bay Islands**
																													*Port Blair.
																													Lower Burma
8·0	+1·8	8·3	130·22	−36·24	4·56	VIII	123	−33·7	4·7	−0·8	4	152	58	45	9	42	15	10	31	8	78	59	18	6	74	23	50	50	Victoria Point.
5·6	+1·1	6·2	152·15	−9·09	6·13	V	147	−6·8	4·7	+2·8	9	64	54	161	16	13	7	11	31	31	30	18	69	17	55	12	123	11	Mergui.
6·2	+2·0	6·4	200·75	−13·99	4·87	VII	146	+1·6	2·3	+1·1	27	26	6	16	26	9	1	5	250	34	27	6	17	34	23	4	27	194	Tavoy.
7·5	...	7·0	215·95	+26·11	6·67	VII	138	0	7·2	...	8	27	122	83	60	22	16	4	24	28	13	18	7	67	116	76	26	15	Amherst.
5·4	−0·5	5·3	124·22	+25·19	4·33	V	130	+7·7	3·1	0	73	71	12	21	57	57	27	16	32	26	16	5	37	104	93	32	14	39	Rangoon.
9·0	...	8·9	91·97	+4·13	4·24	IX	110	−3·8	2·8	...	60	7	27	103	45	38	19	17	50	11	8	10	31	31	86	53	8	128	Tharrawaddy.
6·5	+1·8	6·3	107·14	−1·99	4·64	IX	118	−6·8	3·9	+0·6	26	48	12	34	51	31	40	56	68	7	4	2	8	7	50	95	45	148	Bassein.
5·8	+0·6	5·9	139·28	+21·38	9·50	VIII	103	−10·8	8·6	...	41	71	18	14	25	80	30	85	2	22	13	8	25	22	100	39	128	9	Diamond Island.
4·9	...	5·5	210·75	+39·19	8·17	VIII	131	+12·3	3·8	...	20	10	5	76	25	7	6	16	201	12	4	1	33	6	29	21	192	68	Gwa.
5·7	...	5·8	225·83	...	14·85	V	132	...	1·5	...	3	50	89	28	22	10	5	2	157	2	4	11	10	32	90	38	8	171	Sandoway.
5·6	+0·1	5·4	75·02	−7·94	3·51	XI	107	−7·7	...	...	37	9	8	89	91	6	13	44	69	8	3	7	79	78	13	11	13	154	Toungoo.
6·4	+1·0	5·8	144·05	−43·74	6·27	VI	123	−6·1	3·0	+0·8	17	104	9	50	16	15	1	3	151	4	5	0	19	22	49	88	50	129	Kyaukpyu.
5·8	+0·8	5·2	159·20	−44·17	6·29	VI	127	+1·5	7·8	...	96	116	51	33	24	15	1	5	25	1	5	7	33	60	53	129	63	15	Akyab.
																													Upper Burma
4·2	+0·1	4·3	31·56	−3·82	2·15	VI	47	−10·2	3·8	−0·8	9	1	2	125	67	1	9	94	58	5	2	0	45	51	23	74	40	126	Minbu.
4·1	+0·2	4·5	28·78	−9·24	3·26	IX	57	−6·3	3·5	...	53	2	1	0	177	3	0	9	71	15	0	7	30	123	7	4	1	179	Yamethin.
5·1	+1·3	5·3	26·32	−6·84	3·07	IX	41	−9·8	4·2	...	25	5	10	77	159	12	2	10	66	34	23	19	58	64	16	6	14	132	Mandalay.
4·4	−0·7	4·4	29·32	−1·73	3·49	X	52	+7·9	3·0	+0·8	91	11	4	55	78	15	5	63	44	18	5	4	32	32	9	3	18	245	Monywa.
4·9	−1·2	4·2	48·87	−13·00	2·54	V	85	−15·7	1·9	−0·3	3	7	4	6	21	23	8	2	292	5	2	0	2	59	93	29	14	162	Lashio.
6·0	+0·4	4·1	77·12	+5·11	6·27	VII	99	−1·5	2·3	+0·8	118	55	3	8	23	10	22	31	96	93	66	5	14	17	15	10	17	129	Bhamo.
5·7	−0·1	4·9	74·99	−4·00	3·86	VII	101	−4·5	...	...	87	85	34	40	41	17	13	18	31	37	27	14	23	44	36	21	17	147	Myitkyina.
																													Assam
7·5	+1·8	...	116·40	+7·98	3·82	VII	131	−3·5	1·8	+1·1	54	78	97	10	11	4	4	13	95	...	...	...	...	...	...	...	...	...	Dibrugarh.
8·5	+1·2	6·2	99·31	+3·32	3·76	V	124	−4·5	3·1	+1·4	49	93	49	24	38	42	11	11	49	100	75	21	12	20	31	16	43	48	Sibsagar.
4·8	−0·2	3·4	80·23	+5·99	4·54	VII	104	−1·1	2·5	+0·2	28	93	157	6	2	1	13	9	57	22	37	73	8	0	1	19	15	191	Tezpur.
5·4	−0·8	5·1	59·93	−5 36	3·75	VIII	82	−10·8	2·1	+0·8	50	66	46	47	27	16	20	28	66	19	57	36	25	11	20	33	23	142	Gauhati.
4·0	−0·6	3·8	86·99	−9·51	7·13	VII	94	−0·3	4·1	+0·1	26	134	70	13	31	26	4	7	55	27	60	31	21	43	36	16	4	128	Dhubri.
5·5	+0·4	3·7	123·33	−1·35	5·50	IV	140	+3·9	1·4	−0·1	9	47	73	25	6	2	3	2	199	5	5	7	4	3	6	14	5	317	Silchar.
5·6	+2·0	5·4	95·94	−2·59	4·67	VII	128	+4·3	2·9	...	12	41	52	87	100	18	5	4	47	20	29	29	59	68	25	52	30	54	Srimangal.
																													Bengal
5·7	+1·5	5·5	143·35	+2·71	7·20	VI	110	+3·0	3·1	+0·2	4	13	10	96	40	8	0	3	192	13	1	1	57	70	45	18	21	140	Cox's Bazar.
4·9	+0·2	4·7	104·04	+1·31	6·08	VIII	92	−3·0	5·3	...	35	79	53	116	69	10	3	1	0	33	7	1	22	79	110	63	51	0	Chittagong.
5·3	+1·5	5·1	..	..	...	...	...	..	5·7	+2·8	84	40	31	94	42	42	11	22	0	48	10	2	45	93	87	29	52	0	Noakhali.
5·6	+1·7	5·7	108·72	+18·41	13·57	V	108	+7·8	3·2	...	30	25	30	79	86	24	2	4	86	6	5	11	42	96	42	10	7	147	Comilla.
5·3	+0·1	4·7	78·82	+5·00	4·84	VIII	97	+3·7	3·9	+0·7	16	18	49	67	77	41	23	58	17	7	5	14	59	100	39	43	67	32	Narayanganj.
5·1	−0·1	4·3	92·77	−0·18	5·26	X	94	−11·4	2·7	+1·1	5	37	50	126	10	3	8	10	117	2	16	26	87	6	5	33	6	185	Mymensingh.
5·0	+1·2	4·9	77·91	+6·19	5·06	V	88	−5·3	4·5	...	15	23	16	107	80	6	6	47	66	6	11	14	106	57	3	12	34	123	Faridpur.
4·9	+0·3	4·7	81·47	−0·84	6·69	V	105	+1·8	4·0	+2·1	48	24	45	62	71	44	25	30	17	22	7	25	66	89	57	15	22	63	Barisal.
5·3	+0·6	5·1	72·00	+5·94	5·23	VIII	110	+13·0	3·7	...	46	35	35	62	54	44	23	21	46	18	8	26	79	68	16	6	19	126	Khulna.
3·9	−0·6	3·3	63·27	−2·76	4·72	V	88	0	3·2	+1·2	23	21	9	59	87	40	7	11	109	6	6	11	38	67	15	0	4	219	Jessore.
4·9	+1·4	4·8	67·71	+5·22	3·96	V	101	+5·5	2·8	...	52	43	36	31	69	50	13	38	34	8	19	20	45	89	28	8	9	140	Satkhira.
4·9	+0·4	5·0	70·22	+7·68	5·70	VI	99	+13·8	2·7	−0·5	32	30	33	28	37	86	13	22	85	32	5	16	37	74	70	16	41	75	Calcutta.
6·4	+1·1	6·7	72·16	+2·75	7·45	VIII	93	+13·4	9·4	+0·8	64	69	29	13	77	71	13	18	10	38	25	17	44	174	48	9	4	5	Saugor Island.
4·5	−0·1	4·4	54·12	+13·23	9·90	VI	75	+19·3	...	...	40	58	19	13	36	125	36	16	20	27	32	25	35	61	118	18	8	38	Sandheads.
4·5	+1 4	5·1	59·62	+0·57	4·72	VI	91	+10·7	2·1	−0·3	50	30	48	24	90	19	3	11	91	25	15	24	46	100	9	4	7	136	Midnapore.
4·1	−0·6	4·1	80·42	+21·79	4·36	VII	98	+21·1	2·4	...	37	6	17	97	48	26	14	75	46	27	3	10	90	42	16	23	52	103	Burdwan.
5·2	+1·0	5·2	58·92	+0·52	3·68	VII	91	+12·8	2·6	...	19	32	32	34	51	52	23	21	102	2	11	20	32	31	22	8	5	235	Krishnagar.
4·8	+0·8	5·1	59·89	+1·95	5·50	VI	87	+12·3	4·6	...	24	11	42	50	23	36	72	72	36	35	25	57	51	9	11	66	91	21	Asansol.
4·7	0	4·5	56·13	−0·98	4·20	IX	93	+15·8	2·7	+0·4	26	16	61	50	60	29	12	24	88	16	6	64	42	41	20	14	12	151	Berhampore.
4·7	+0·6	4·2	54·91	−16·06	2·79	IX	81	−4·3	2·3	+0·7	21	26	98	66	21	43	39	11	41	4	7	54	62	22	24	74	18	101	Bogra.
4·2	+1·2	3·6	65·69	+9·59	5·22	IX	79	+10·1	4·3	...	47	24	72	35	58	36	29	46	19	37	23	62	39	42	11	25	88	39	Malda.
4·2	0	3·8	70·15	−0·95	4·38	X	80	+0·5	2·1	−0·3	3	80	72	37	15	22	18	16	103	0	40	46	33	11	27	38	16	155	Dinajpur.
4·0	+0·7	3·5	140·58	+18·26	7·95	VI	112	+8·8	2·9	+1·5	51	87	124	27	4	3	12	14	44	12	47	58	33	24	10	24	9	149	Jalpaiguri.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity, %.		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Orissa																						
Balasore	65	29·721	—·008	29·623	87·9	—0·7	107	IV	71·6	+1·1	50	I, XII	76·7	81·3	72·3	75·0	·759	+·014	·795	80	—1	73
Chandbali	20	29·768	—·014	29·677	88·3	—0·4	106	IV	72·2	+0·7	49	XII	76·7	82·2	73·4	74·9	·795	...	·777	85	+3	70
Puri	20	29·774	—·001	29·685	85·3	—1·0	94	X	75·5	+0·9	56	XII	79·0	81·7	74·9	76·2	·820	—·001	·834	81	—2	77
Gopalpur	56	29·734	—·006	29·644	86·5	+0·4	95	V, VI	74·3	+1·0	52	XII	78·9	82·1	74·6	76·5	·810	+·025	·838	81	0	77
Cuttack	87	29·709	0	29·606	90·7	—0·2	110	IV	..	...	51	XII	77·5	84·6	73·3	74·7	·778	+·028	·739	81	+2	63
Angul	455	29·331	—·004	29·220	90·2	+0·3	112	V	..	..	...	..	75·5	86·0	70·8	72·2	·705	+·012	·618	78	+2	53
Sambalpur	486	29·300	—·011	29·186	90·8	+0·3	113	V	70·3	+0·5	45	XII	76·3	86·3	70·1	72·2	·666	+·012	·615	73	+2	53
Chota Nagpur																						
Jamshedpur	423	29·348	...	...	89·8	...	113	V	69·0	...	44	I	74·6	...	68·6	...	·647	...	...	73	...	...
Chaibasa	742	29·036	+·002	28·924	89·0	—0·9	113	V	68·7	+0·4	44	XII	74·3	84·3	69·0	72·3	·657	+·006	·647	76	0	58
Ranchi	2,152	27·633	—·002	27·551	83·5	—0·7	106	V	64·3	—1·2	40	XII	72·0	77·5	64·3	66·0	·531	+·002	.515	65	—1	55
Hazaribagh	2,006	27·779	+·007	27·700	83·8	—0·8	109	V	63·9	—1·8	39	I	71·6	76·9	64·4	66·2	·547	+·035	·532	67	+4	57
Daltonganj	725	29·052	—·005	28·943	87·7	—1·8	112	V	66·2	+0·9	40	I, XII	71·9	83·9	65·7	68·9	·582	—·005	·528	73	0	48
Bihar																						
Purnea	124	29·662	—·018	29·549	..	..	105	IV	66·1	—0·2	38	I	72·5	82·0	68·1	71·7	·665	—·025	·661	79	—6	61
Darbhanga	162	29·628	—·005	29·518	86·2	+0·2	106	V	66·9	—0·9	40	I	74·0	82·0	68·6	73·0	·661	—·021	·645	75	—5	59
Motihari	220	29·562	—·011	29·462	86·4	—0·1	107	V	65·8	+0·8	38	I	72·1	82·1	67·4	71·4	·639	—·038	·643	75	—8	58
Patna	173	29·621	+·003	29·513	87·5	+0·2	111	V	68·8	+0·2	42	I	74·6	83·6	68·2	70·9	·645	—·011	·612	71	—1	54
Gaya	372	29·403	—·010	29·309	90·1	+0·4	113	V	69·7	+0·8	45	I	76·8	85·2	68·2	71·1	·608	—·027	·598	64	—6	51
Naya Dumka	489	29·297	—·001	29·189	87·8	+0·1	112	V	67·5	—0·3	42	I	74·7	81·1	68·3	70·2	·636	—·012	·616	72	—1	59
Sabour	122	29·668	...	29·562	86·6	...	109	V	66·5	...	38	I	73·2	82·0	68·0	70·8	·653	...	·630	76	...	59
United Provinces. East																						
Gonda	360	29·424	...	29·326	87·5	..	112	V	65·9	...	38	I	72·2	82·5	66·3	70·1	·608	...	·614	74	...	55
Gorakhpur	257	29·525	—·001	29·426	88·0	+0·3	111	V	66·9	+0·2	39	I	72·9	82·9	67·5	71·7	·639	—·001	·647	75	0	58
Benares	250	29·522	—·012	29·426	88·6	—0·9	113	V	67·7	+1·1	40	I	74·7	84·8	67·2	69·9	·603	—·018	·564	68	—3	49
Allahabad	309	29·466	—·008	29·366	89·1	—1·0	115	V	67·4	+0·6	39	I	73·8	85·7	66·6	70·1	·599	+·023	·554	69	+4	47
Fatehpur	375	29·396	...	29·290	88·3	...	114	V	66·8	...	38	I, XII	75·6	84·7	68·5	72·4	·642	...	·660	69	...	55
Cawnpore	416	29·355	—·009	29·265	89·9	...	114	V	68·2	+1·8	40	I	72·9	85·0	65·9	70·1	·606	+·037	·578	71	+5	49
Lucknow	371	29·397	—·013	29·300	88·9	—0·8	113	V	66·8	+1·1	38	I	73·1	83·7	66·7	70·3	·617	+·035	·591	72	+4	51
Bahraich	407	29·356	—·011	29·265	86·7	—1·4	111	V	66·0	+0·3	33	I	71·7	83·2	66·1	70·6	·610	—·008	·609	75	+2	53
United Provinces. West																						
Jhansi	824	28·970	—·003	28·865	90·4	—0·8	115	V	67·2	—1·8	39	XII	76·3	86·8	64·9	67·8	·493	—·036	·454	54	—4	37
Agra	554	29·219	—·012	29·125	89·6	—0·8	115	V	64·0	+1·0	34	I, XII	73·7	85·7	64·0	67·5	·507	+·008	·458	58	0	37
Mainpuri	516	...	...	..	89·5	—0·6	115	V	65·4	—0·2	37	I	73·3	84·9	65·9	70·7	·571	+·027	·580	66	+1	48
Aligarh	615	29·150	...	29·059	...	...	112	V	65·6	...	38	I	72·6	85·2	63·9	67·9	·510	...	·482	60	...	39
Bareilly	568	29·219	+·016	29·127	86·1	—1·4	111	V	65·3	+0·6	39	I	71·5	83·0	..	71·7	..	..	·650	...	..	57
Roorkee	899	28·875	0	28·785	85·0	—1·4	110	V	61·8	—0·4	33	I	68·9	82·1	62·5	67·2	·524	+·005	·501	69	—2	44
Dehra Dun	2,239	27·541	—·008	...	81·3	+0·1	105	V	58·7	—1·0	35	I	65·9	...	60·2	...	·487	+·015	...	72	+2	...
Punjab. East and North																						
New Delhi	719	29·048	—·010	28·956	87·7	...	111	V	65·0	...	36	I	71·7	85·1	64·3	69·6	·549	...	·541	66	...	45
Hansi	711	..	...	...	90·4	...	114	V	62·9	...	33	I	72·1	...	62·8	...	·496	...	...	60	...	...
Hissar	725	29·047	—·003	28·958	90·7	—0·2	116	V	63·5	—0·2	35	I	73·9	85·5	63·4	67·9	·493	+·019	·473	55	—4	37
Ambala	892	28·863	—·013	28·777	87·3	—0·6	113	V	63·6	+0·9	35	I	69·8	81·9	62·2	66·6	·507	—·018	·484	65	—5	43
Ludhiana	812	28·952	—·007	28·877	87·8	0	113	V	62·7	—1·3	34	I, XII	70·7	84·5	62·6	67·0	·510	+·011	·463	63	—2	37
Lahore	702	29·059	—·008	28·989	88·2	—1·4	116	V	62·6	+2·0	32	I	70·2	85·2	63·0	68·0	·528	+·040	·490	68	+6	39
Sialkot	830	28·927	—·015	28·843	85·7	—1·4	113	VI	62·3	—0·1	33	XII	69·2	82·1	62·2	68·0	·513	—·002	·537	69	—1	48
Rawalpindi	1,674	28·089	—·025	28·018	83·6	—0·5	113	VI	57·6	—0·1	29	XII	67·3	80·2	58·9	65·7	·439	—·009	·416	63	—2	39

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1936.

Cloud amount (tenths of sky.)			Rainfall, inches.				Number of rainy days. (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds during the year from																STATION.
											8 hrs. L. M. T.									17 hrs. I. S. T.								
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall during the year in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Orissa
5·9	+2·3	6·3	75·66	+12·93	4·40	V	97	+19·0	4·9	+2·0	82	52	14	14	63	76	11	45	11	10	13	10	114	100	37	11	10	61	Balasore.
5·6	...	5·5	83·77	+22·79	7·34	V	96	+24·4	5·6	...	90	12	2	18	69	62	52	45	16	14	36	58	117	93	19	17	5	7	Chandbali.
4·9	+0·8	4·6	76·43	+21·87	5·40	VI	83	+21·3	10·8	+2·4	87	53	4	6	64	81	30	11	30	17	18	36	49	126	89	16	4	11	Puri.
5·1	+2·2	5·6	80·35	+25·39	7·91	VII	68	+9·8	9·6	+1·2	131	12	9	3	74	87	7	40	3	17	23	63	21	111	116	5	10	0	Gopalpur.
5·4	+0·9	5·8	90·87	+31·60	8·00	X	95	+20·1	2·8	+0·8	11	25	18	5	18	77	66	23	115	1	8	17	36	53	76	35	4	129	Cuttack.
4·8	+0·7	4·9	52·08	+4·25	4·53	VI	79	+6·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Angul.
4·7	+0·6	5·2	80·95	+15·22	9·37	VI	83	+9·1	3·2	+0·3	77	37	29	21	29	65	19	13	76	46	18	21	9	27	60	58	33	94	Sambalpur.
																													Chota Nagpur
4·5	...	...	50·78	...	3·08	VIII	77	...	2·9	...	4	8	35	22	6	29	81	40	141	...	...	...	...	...	...	...	...	...	Jamshedpur.
5·2	+1·5	6·0	50·35	−1·43	3·46	VI	86	+11·6	2·0	+0·4	6	33	18	3	31	106	51	14	104	21	36	32	12	19	43	62	23	118	Chaibasa.
4·4	+0·5	5·2	66·46	+9·25	4·13	IX	96	+15·8	...	..	23	11	14	17	44	45	22	35	155	60	20	20	26	19	23	23	73	102	Ranchi.
3·9	−0·4	4·4	71·03	+17·75	2·75	VII	91	+15·8	5·6	+0·3	23	10	22	30	54	64	41	72	50	73	21	27	34	29	15	22	130	15	Hazaribagh.
4·6	+1·8	5·3	61·47	+16·82	3·05	IX	84	+22·5	3·3	+0·6	16	10	73	23	33	27	36	10	138	73	24	40	11	15	9	68	75	51	Daltonganj.
																													Bihar
4·0	+0·3	3·8	82·36	+20·08	8·75	IX	85	+14·2	2·7	+0·6	6	49	104	24	5	45	41	10	82	3	33	66	16	3	81	56	13	145	Purnea.
4·2	+1·0	3·5	51·43	+1·16	6·34	VII	63	+4·0	...	...	1	0	104	0	1	1	24	1	234	0	0	47	0	1	0	18	1	299	Darbhanga.
4·4	+1·6	3·8	54·05	−0·81	3·64	IX	58	−0·9	...	...	14	42	129	29	12	20	55	15	50	5	20	80	20	14	21	83	13	110	Motihari.
4·5	+0·9	4·1	64·45	+15·93	6·32	VIII	69	+13·0	4·3	+1·2	6	41	76	35	24	75	58	14	37	18	55	59	17	12	12	77	61	55	Patna.
3·3	+0·1	3·4	53·42	+10·94	7·80	IX	79	+21·0	4·0	+1·4	3	28	58	67	52	75	62	14	7	43	57	37	27	13	18	55	104	12	Gaya.
4·1	+0·9	3·9	64·08	+6·99	3·87	IX	89	+11·1	2·4	+0·7	4	24	19	57	18	21	16	60	147	5	26	22	30	13	16	15	55	184	Naya Dumka.
4·7	...	4·6	59·91	+11·97	4·20	X	78	+17·0	...	...	9	20	66	58	36	72	48	15	32	29	30	50	36	15	5	43	89	69	Sahsur.
																													United Provinces, East
4·2	...	3·9	69·34	...	4·99	VII	73	...	3·6	...	21	19	114	31	8	16	82	42	33	17	11	60	24	16	15	100	65	58	Gonda.
4·4	+1·8	4·4	68·88	+18·69	4·82	VI	73	+16·4	3·2	...	2	9	148	9	0	9	94	12	83	1	0	92	2	0	5	74	9	183	Gorakhpur.
4·3	+1·0	4·3	54·17	+13·62	4·09	VII	74	+21·3	5·2	+2·7	18	68	45	17	43	98	58	7	12	38	53	24	17	9	41	91	85	8	Benares.
4·1	+0·5	4·1	50·16	+11·10	5·64	IX	57	+8·0	5·8	+2·6	6	22	78	27	21	49	91	25	47	37	48	51	9	8	8	78	98	29	Allahabad.
3·5	...	3·8	53·57	...	6·13	VII	71	...	3·0	...	11	39	35	36	15	39	71	49	71	17	42	21	16	2	5	36	92	135	Fatehpur.
2·6	+0·4	2·6	57·09	+21·17	3·77	VII	64	+19·5	3·0	+0·6	27	24	54	35	25	27	81	35	58	43	41	29	11	10	11	93	74	54	Cawnpore.
3·8	+0·7	3·2	63·58	+25·01	3·79	VII	64	+15·7	1·2	−0·7	3	9	76	5	3	12	62	26	179	8	16	32	6	0	17	56	51	180	Lucknow.
3·9	+1·5	3·7	66·50	+21·20	4·88	VII	64	+19·3	...	...	2	10	49	79	0	34	11	48	133	3	11	17	35	5	35	17	62	181	Bahraich.
																													United Provinces, West
2·7	+0·4	3·3	31·02	−5·15	2·63	VI	58	+11·4	2·5	−0·5	7	11	18	3	3	36	48	19	221	23	35	16	7	1	28	55	34	167	Jhansi.
3·3	+0·6	3·5	36·44	+9·54	5·87	VIII	47	+9·0	3·7	+0·4	13	23	41	33	25	40	106	52	33	43	36	37	15	5	22	88	96	24	Agra.
3·8	+0·9	3·8	34·46	+7·39	2·68	VI	50	+11·4	3·0	+1·4	15	41	53	21	10	47	90	45	44	13	26	31	10	2	35	88	54	107	Mainpuri.
2·8	...	2·8	40·02	...	4·79	VII	46	...	4·1	...	40	19	35	51	23	22	81	49	46	68	20	37	30	12	18	49	97	35	Aligarh.
3·6	+0·5	3·5	65·43	+21·76	5·27	VII	64	+17·7	3·3	+1·5	31	18	90	37	2	31	48	63	46	15	11	44	29	8	10	123	62	64	Bareilly.
4·1	+1·3	4·1	53·61	+11·63	4·96	VII	62	+14·3	3·4	+1·5	12	15	7	163	2	10	3	81	73	2	9	2	88	1	22	7	181	54	Roorkee.
4·6	+0·7	...	121·37	+38·21	7·82	VIII	104	+23·7	1·7	+0·6	24	50	20	49	10	39	27	24	113	...	...	...	...	...	...	...	...	...	Dehra Dun.
																													Punjab, East and North
3·1	+0·2	3·6	41·84	+15·00	9·27	VI	44	+8·0	2·9	+0·2	6	15	23	26	22	40	79	24	131	24	26	27	16	7	32	58	68	108	*New Delhi.
3·4	...	...	...	...	...	...	...	...	...	...	18	24	29	42	15	41	64	15	118	...	...	...	...	...	...	...	...	...	Hansi.
2·1	−0·1	2·9	9·23	−8·44	1·02	VII	26	+0·2	4·0	+0·4	19	14	48	37	26	66	71	26	59	68	10	57	13	7	28	62	69	52	Hissar.
4·1	+1·2	4·0	41·81	+11·32	4·88	VII	53	+10·6	4·5	+2·1	8	2	53	115	0	1	1	170	16	4	0	27	77	1	1	9	230	17	Ambala.
3·6	+0·9	3·7	27·57	−1·14	2·78	VII	39	+2·7	2·8	+1·5	18	24	25	58	44	7	60	47	83	24	33	25	27	22	8	97	93	37	Ludhiana.
3·2	+0·6	3·2	21·13	+1·51	2·65	VI	34	+5·9	2·3	−0·6	16	33	26	76	24	14	19	30	128	19	18	16	36	13	14	36	61	153	Lahore.
2·3	−0·1	2·1	49·77	+18·75	6·65	VII	54	+13·5	2·5	+1·0	23	87	27	73	8	11	4	45	88	4	23	11	41	10	35	12	86	144	Sialkot.
3·1	−0·1	3·5	52·40	+17·63	5·31	VIII	65	+16·8	2·3	+0·6	4	66	1	26	5	14	0	10	240	4	36	1	46	7	130	14	59	69	Rawalpindi.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity. inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure. inches.			Relative humidity. %.		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Punjab, Southwest																						
Khushab	612	29·155	—·016	29·065	88·7	—0·8	114	VI	64·1	+0·4	30	XII	71·3	87·0	61·8	67·3	·485	+·030	·445	57	+2	32
Lyallpur	605	29·151	—·010	29·073	89·0	+0·4	115	V, VI	63·8	+1·7	31	I	72·5	86·1	62·4	67·2	·475	—·007	·444	56	—7	35
Montgomery	558	29·1	—·018	29·111	88·9	—2·2	115	V	64·4	+0·2	31	I	70·9	87·1	...	...	...	...	...	...	...	...
Multan	413	29·3	·012	29·263	90·1	+0·3	117	V	65·7	+1·1	33	I	73·0	88·1	...	...	...	...	...	...	...	...
Bahawalpur	384	29·3	...	...	90·7	...	116	V	64·3	...	31	I	72·5	...	63·2	...	·504	...	...	59	...	...
Khanpur	297	29·4	...	29·368	...	...	116	V	64·1	...	31	I	72·6	91·3	62·9	68·7	·494	...	·430	56	...	28
Kashmir																						
Srinagar	5,205	24·841	—·014	24·759	68·6	+0·9	96	V	45·3	+1·6	22	I	51·6	64·5	48·1	53·7	·333	—·010	·320	81	—6	53
Muzaffarabad	2,343	27·423	—·025	...	79·6	—0·2	109	VI	57·1	+1·4	32	I, III	61·5	...	56·3	...	·420	+·018	...	73	+5	...
Dras	10,059	20·778	+·007	...	46·4	—3·0	84	IX	22·8	+1·8	—34	I	30·0	...	26·1	...	·151	—·018	...	74	—2	...
Leh	11,503	19·679	+·006	...	56·5	+1·1	86	VI	30·6	+1·0	—2	I	38·5	...	31·8	...	·145	+·013	...	58	+7	...
Skardu	7,505	...	...	...	63·2	+0·6	98	VII	41·6	+1·1	5	I	47·4	...	40·9	...	·222	+·004	...	64	—2	...
Gilgit	4,890	...	...	...	70·0	—3·0	101	VII	52·4	+0·1	24	I	56·0	...	49·0	...	·302	+·023	...	62	+10	...
N. W. F. Province																						
Peshawar	1,164	28·617	—·026	28·528	84·8	+0·1	115	VI	60·0	—0·3	29	I	68·4	82·1	60·0	65·3	·465	—·069	·442	62	+10	38
Miranshah	...	...	...	...	...	...	110	V, VI	58·9	...	26	I	67·4	...	55·9	...	·349	...	...	48	...	...
D. I. Khan	570	29·205	+·003	29·112	89·4	—0·3	119	V	62·8	+0·2	31	I	72·7	86·9	63·2	...	·509	—·013	...	57	—8	..
***Baluchistan**																						
Fort Sandeman	4,614	25·335	—·010	25·263	79·1	—1·4	106	VI, VII	54·3	+0·9	24	I	57·2	76·9	49·2	56·1	·301	+·008	·244	57	+3	24
Sibi	441	29·311	...	...	93·8	...	118	V, VI	67·6	...	34	XII	76·6	...	61·6	...	·393	...	...	40	...	...
Quetta	5,540	...	...	...	...	...	101	VII	43·5	...	18	XI	52·1	71·3	45·6	53·9	·276	...	·256	65	...	34
Chaman	4,311	25·594	—·021	25·553	78·4	+0·2	107	VII	55·5	+1·0	25	I, III	62·0	76·5	51·4	57·7	·297	+·057	·298	51	+6	33
Kalat	6,616	...	...	...	70·9	—2·0	97	VII	41·5	+4·3	16	I, III, XII	48·3	...	41·4	...	·215	—·020	...	60	—6	...
Dalbandin	2,780	27·027	—·013	26·951	86·7	—0·9	117	VIII	54·5	—0·1	25	I, XII	61·7	85·7	51·1	65·0	·268	+·032	·403	50	+6	31
Nokkundi	2,229	27·575	...	27·497	89·8	...	116	VI, VII	61·7	...	24	XII	68·3	88 3	...	...	...	...	...	...	...	...
Las Bela	292	29·508	...	29 393	94·7	...	117	V	64·9	...	35	I	75·5	91·4	67·9	72·9	·614	...	·578	65	...	38
Sind																						
Jacobabad	186	29·573	—·016	29·477	94·6	—1·1	120	V	66·0	+0·3	35	I	79·7	93·2	65·2	71·9	·561	+·021	·534	62	+4	32
Sukkur	221	29·535	...	...	93·3	...	116	V	67·7	...	38	I	73·1	...	65·2	...	·559	...	...	63	...	...
Naushahro	140	29·615	...	29·517	96·7	...	120	V	66·6	...	35	XII	75·	94·7	64·4	69·1	·506	...	·395	55	...	24
Chhor	19	29·762	...	29·661	...	...	117	V	...	...	...	...	74·1	92·6	...	...	...	...	...	...	...	...
Hyderabad	96	29·683	—·012	29·601	93·6	+0·3	114	V	...	...	41	I	75·9	91·1	66·1	...	·553	+·008	...	57	—3	...
Drigh Road (Karachi).	77	29·726	...	29·641	87·7	...	111	V	68·8	...	42	I	75·1	84·4	67·9	71·2	·619	...	·611	67	...	50
Manora (Karachi)	13	29·783	—·024	29·711	83·8	—0·4	97	X	72·0	+0·6	52	I, XII	75·6	82·0	70·0	73·1	·690	+·005	·710	74	0	63
Badin	36	29·747	...	...	92·3	...	112	V	67·9	...	41	I .XII	74·9	...	67·5	...	·607	...	...	65	...	...
Rajputana, West																						
Bikaner	762	28·994	—·013	28·903	91·5	—0·6	117	V	67·7	—1·2	38	I	73·3	89·1	61·5	66·1	·438	—·054	·364	49	—4	25
Jodhpur	780	29·010	—·008	28·901	92·7	+0·3	115	V	69·0	+1·2	39	XII	74·5	91·2	63·3	67·9	·467	+·023	·393	50	+2	26
Barmer	638	29·139	...	29·035	92·5	...	116	V	68·1	...	38	XII	75·2	90·5	66·4	72·6	·568	...	·591	59	...	32
Rajputana, East																						
Jaipur	1,431	28·355	—·017	28·267	89·0	—1·1	115	V	64·8	+0·4	35	XII	74·8	85·6	63·0	66·0	·460	0	·419	51	—1	34
Ajmer	1,593	28·188	—·030	28·095	87·7	—0·8	110	V	64·7	—0·5	33	XII	72·9	85·0	62·7	66·1	·478	—·015	·431	56	—6	35
Kotah	843	28·020	—·022	28·840	91·4	—0·7	117	V	67·5	—2·5	42	I	77·2	88·4	64·7	69·0	·479	+·004	·448	49	—1	34
†Brijnagar	1,053	28·730	...	28·622	90·3	...	113	V	65·4	...	36	XII	74·0	87·1	65·2	75·1	·542	...	·535	61	...	42

* Stations in Baluchistan exclu ling Sibi and Las Bela record observations at 7 hrs. (L. M. T.)
† Formerly Jhalrapatan.

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1936.

Cloud amount, (tenths of sky).			Rainfall, Inches.				Number of rainy days, (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds during the year from																STATION.
											8 hrs. L. M. T.									17 hrs. I. S. T.								
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall during the year in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Punjab, South-west
2·6	+0·3	3·2	19·80	+4·91	2·90	II	25	+1·1	5·4	+1·5	29	100	87	26	21	38	20	4	41	26	40	64	77	68	43	31	12	5	Khushab.
2·4	—1·1	3·0	11·49	—1·69	1·90	VI	20	—1·5	2·7	+0·6	12	33	55	47	43	66	14	23	73	21	24	24	25	45	58	22	71	76	Lyallpur.
1·2	—0·9	1·5	15·09	+4·53	4·51	VII	20	+1·9	2·4	—1·9	5	16	20	49	21	13	39	13	190	8	8	15	20	9	7	45	18	236	Montgomery.
2·0	+0·3	2·3	12·58	+5·38	4·27	IX	15	+2·2	2·9	+1·5	87	29	14	19	80	61	7	32	37	64	25	15	15	82	69	15	36	45	Multan.
1·9	...	...	10·08	+4·23	2·11	VII	17	+7·7	3·3	...	24	41	35	30	61	98	15	5	57	...	...	...	...	...	...	...	...	...	Bahawalpur.
2·1	...	2·3	5·26	—1·39	1·23	IX	16	+5·7	5·4	...	90	30	20	6	38	122	24	14	22	86	26	14	3	29	89	71	33	15	Khanpur.
																													Kashmir
4·9	+0·3	4·9	27·17	+1·30	2·44	III	51	—7·6	3·1	+0·7	27	15	24	100	51	16	29	44	60	44	29	9	29	23	24	64	60	84	Srinagar.
3·4	+0·1	...	66·24	+14·06	3·97	III	82	+4·0	2·2	+0·8	4	10	6	8	64	72	7	2	193	...	...	...	...	...	...	...	...	...	Muzaffarabad.
3·9	—0·1	...	38·36	+16·84	2·30	III	54	—1·1	3·5	+0·9	1	1	0	0	2	13	7	2	340	...	...	...	...	...	...	...	...	...	Dras.
4·8	+0·1	...	3·45	+0·27	0·36	VIII	10	+0·4	3·1	+1·4	26	21	8	20	102	38	20	0	131	...	...	...	...	...	...	...	...	...	Leh.
4·6	+0·1	...	7·46	+0·50	1·05	III	21	+2·6	4·2	+0·6	2	25	39	8	3	28	61	14	186	...	...	...	...	...	...	...	...	...	Skardu.
4·3	—0·3	...	6·60	+1·79	1·97	III	14	—1·2	0·2	—1·0	0	0	1	0	0	5	4	0	356	...	...	...	...	...	...	...	...	...	Gilgit.
																													N.-W. F. Province
3·3	—0·5	4·5	16·41	+2·90	1·99	XI	29	+3·1	2·4	+0·5	62	31	13	29	49	30	8	33	111	37	102	37	44	18	16	5	19	88	Peshawar.
1·6	...	...	14·31	...	1·69	VIII	29	...	5·4	...	29	64	60	46	35	36	57	23	16	...	...	...	...	...	...	...	...	...	Miranshah.
2·2	+0·1	2·5	6·49	—2·60	0·77	III	17	+0·7	2·3	+1·0	64	87	40	27	20	18	27	40	43	20	51	38	67	72	20	11	16	71	D. I. Khan.
																													***Baluchistan.**
2·7	+0·8	4·7	17·41	+6·46	1·75	VIII	31	+6·3	2·0	—0·2	0	1	1	0	2	0	2	0	360	3	6	12	8	12	7	23	10	285	Fort Sandeman
1·6	...	...	4·59	...	2·08	II	10	...	...	...	9	4	4	12	47	18	4	11	256	...	...	...	...	...	...	...	...	...	Sibi.
2·5	...	3·3	12·07	...	1·52	XII	24	...	4·9	...	22	49	20	60	66	23	9	8	109	97	25	5	10	31	36	49	106	7	Quetta.
2·3	+0·2	2·9	10·92	+3·70	1·68	XII	23	+3·6	5·5	+0·4	5	7	66	93	42	34	18	7	94	18	5	6	7	17	79	132	77	25	Chaman.
1·9	+0·1	...	9·06	+2·42	1·10	XII	21	+2·9	3·7	—0·9	6	2	5	44	189	33	3	14	56	...	...	...	...	...	...	...	...	...	Kalat.
1·6	—0·3	2·1	3·81	+0·09	0·47	XII	13	+3·8	4·6	+0·5	18	46	27	15	6	23	17	10	204	12	32	48	47	65	78	38	33	18	Dalbandin
2·1	...	2·4	2·42	...	0·46	I	7	...	7·8	...	119	58	42	20	12	1	3	47	64	99	6	19	58	36	22	19	89	18	Nokkundi.
2·9	...	2·2	8·15	...	3·21	XII	10	...	2·9	...	52	6	10	9	24	16	11	50	188	7	8	13	52	177	62	10	7	28	Las Bela.
																													Sind
1·5	—0·2	1·5	4·61	+0·93	1·52	VII	9	+1·5	4·3	+1·8	24	24	34	142	37	21	5	41	38	9	26	7	138	48	71	4	59	4	Jacobabad.
1·0	...	...	3·13	...	1·21	VII	6	...	3·5	...	20	39	31	148	13	24	6	9	76	...	...	...	...	...	...	...	...	...	Sukkur.
0·9	...	0·7	4·23	—0·08	1·63	VII	8	+0·7	1·7	...	28	41	18	10	42	101	20	55	51	38	52	15	6	46	113	17	54	25	Naushahro.
3·7	...	2·5	3·23	...	2·10	IX	3	...	7·7	...	38	61	17	4	63	154	2	3	24	36	31	5	4	38	196	29	24	3	Chhor.
2·3	+0·3	2·1	3·21	—3·91	1·50	VII	4	—5·6	7·6	+0·5	81	14	1	6	59	136	30	21	18	68	24	7	10	83	123	23	17	11	Hyderabad.
4·5	...	3·5	5·39	...	1·97	VI	8	...	10·6	...	45	54	8	2	3	71	120	23	40	13	27	10	3	11	189	101	12	0	Drigh Road (Karachi)
4·3	+0·7	3·3	4·21	—3·35	1·49	VII	6	—3·3	10·5	+1·6	26	68	26	4	2	92	121	22	5	5	12	6	10	14	192	120	6	1	Manora, (Karachi).
3·6	...	...	16·14	...	9·82	VII	12	...	7·1	...	35	49	19	7	12	108	100	11	25	...	...	...	...	...	...	...	...	...	Badin.
																													Rajputana, West
1·9	—0·3	2·3	19·04	+7·25	4·23	VIII	18	—1·5	6·2	+1·7	9	18	49	60	56	103	37	10	24	20	30	16	12	51	87	72	38	30	Bikaner.
3·2	+0·1	3·6	11·77	—1·85	1·58	VII	21	+2·1	5·3	+1·7	33	84	13	7	20	109	47	7	46	31	49	16	9	34	110	59	19	39	Jodhpur.
3·2	...	3·0	7·41	...	1·83	VII	14	...	6·4	...	49	16	23	14	26	76	73	68	21	29	29	37	21	29	85	84	45	7	Barmer.
																													Rajputana, East
2·4	—0·7	3·3	22·23	—1·98	3·34	VIII	32	—3·7	3·5	—0·8	16	64	31	10	7	25	76	47	90	28	34	25	9	16	76	81	69	28	Jaipur.
2·8	+0·1	3·8	19·77	—0·88	2·32	VI	21	—9·0	...	...	5	9	6	6	10	51	89	10	180	19	14	9	7	8	45	96	37	131	Ajmer.
3·5	+1·0	4·3	23·11	—5·12	1·85	VII	36	+0·2	2·9	+0·2	14	11	16	12	5	35	101	57	115	28	25	20	12	4	43	55	87	92	Kotah.
2·9	...	3·8	26·82	...	2·53	VII	49	...	3·6	...	25	32	19	17	13	49	87	28	96	44	69	22	8	9	33	100	53	28	†Brijnagar.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity. Inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature. °F.		Wet bulb temperature. °F.		Vapour pressure, inches.			Relative humidity, %.		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L.M.T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Gujarat																						
Deesa	466	29·334	—·018	29·224	93·5	—0·7	111	V	67·8	+0·9	40	XII	76·2	91·8	66·3	69·8	·548	+·017	·452	56	—1	30
Bhuj	343	29·463	—·010	29·368	90·8	—0·3	108	V	68·9	+0·5	42	I	75·1	88·8	66·5	68·5	·563	—·064	·431	61	—6	33
Dwarka	37	29·790	—·012	29·712	84·2	—0·2	96	X	73·2	+0·3	52	I	77·0	80·9	71·2	72·8	·708	—·029	·712	74	—3	67
*Jamnagar	60																					
Rajkot	432	29·380	—·011	29·273	92·7	—0·2	111	V	67·4	+1·3	41	I	75·3	90·0	66·7	68·2	·567	—·033	·415	61	—4	31
Veraval	19	29·810	—·005	29·725	85·9	+1·1	102	III	71·7	+0·4	49	I	77·4	81·7	70·0	75·3	·659	—·012	·802	68	—3	74
Surat	39	29·779	—·020	29·690	92·0	+0·5	106	III, IV	71·3	+1·4	48	XII	76·7	88·8	70·3	74·4	·677	+·002	·661	71	+1	50
Bhavnagar	55	29·780	—·003	...	93·4	—0·2	110	V	69·2	0	43	XII	75·9	...	66·6	...	·556	—·057	...	59	—5	...
Ahmadabad	163	29·662	—·007	29·538	93·9	—0·7	109	V	71·3	+0·7	49	XII	77·9	91·2	67·5	70·3	·566	—·010	·478	56	—3	34
Dohad	1,009	28·809	...	...	91·8	...	110	V	67·5	...	41	XII	73·8	...	65·3	...	·536	...	...	62	...	..
Baroda	114	29·713	...	29·598	93·7	...	111	V	67·1	...	38	XII	75·9	90·4	68·8	73·2	·638	...	·594	68	...	44
Central India, West																						
Neemuch	1,626	28·173	—·021	28·086	88·0	—0·8	109	V	65·6	+1·1	38	XII	74·2	85·9	63·6	66·7	·478	—·017	·412	54	—4	34
Indore	1,823	27·980	—·020	27·883	87·3	—0·9	109	V	63·7	—0·2	34	XII	72·6	84·5	63·1	65·4	·468	—·053	·383	58	—4	36
Bhopal	1,643	28·161	...	28·066	87·7	...	111	V	65·5	...	38	XII	72·6	84·9	63·2	66·9	·477	...	·431	59	...	40
Guna	1,571	28·240	...	28·137	88·2	...	113	V	63·1	...	33	XII	72·6	85·3	63·3	67·9	·488	...	·471	61	...	41
Central India, East																						
Nowgong	750	29·032	—·004	28·928	90·1	+0·8	117	V	65·1	—0·5	35	XII	73·6	86·1	65·9	70·7	·573	+·038	·568	68	+3	47
Satna	1,041	28·729	—·007	28·632	88·5	+0·5	114	V	65·7	—0·2	37	I, XII	74·2	84·0	65·8	69·2	·552	+·029	·534	64	+2	49
Umaria	1,500	28·268	...	28·177	87·3	...	113	V	64·8	...	35	XII	73·5	83·3	65·3	68·6	·545	...	·529	65	...	49
Berar																						
Akola	925	28·866	—·025	28·740	92·1	—1·1	113	V	68·8	+1·4	40	XII	75·5	89·3	66·0	70·1	·530	+·025	·485	60	+4	39
Amraoti	1,213	28·579	—·017	...	91·0	—1·1	113	V	70·0	+0·8	47	XII	76·0	...	65·4	...	·498	—·020	...	57	0	...
Central Provinces, West																						
Khandwa	1,044	28·758	—·013	...	92·2	+0·1	113	V	66·7	—0·4	38	XII	74·6	...	65·4	...	·525	+·026	...	61	+3	...
Hoshangabad	902	28·803	—·019	...	89·2	—1·1	114	V	67·9	+2·4	42	XII	74·1	...	65·7	...	·543	+·040	...	64	+5	...
Saugor	1,808	27·979	—·012	27·888	86·6	—1·3	111	V	66·5	0	40	I	74·3	82·5	62·8	65·1	·443	—·022	·403	52	—3	40
Jubbulpore	1,289	28·497	—·002	28·393	88·2	0	113	V	64·9	+1·3	36	XII	72·2	84·6	64·7	68·5	·532	+·015	·497	68	+3	45
Seoni	2,027	27·773	—·009	...	86·7	—0·9	111	V	65·4	+0·8	38	XII	73·8	...	64·7	...	·510	+·014	...	62	+1	...
Nagpur	1,017	28·777	—·007	28·662	91·3	—0·7	115	V	68·9	+0·1	42	XII	75·5	87·4	66·9	71·2	·559	+·028	·552	65	+6	47
Central Provinces, East																						
Pendra	2,040	27·758	—·004	27·666	84·5	+0·8	108	V	65·5	+1·5	39	XII	73·4	80·1	64·4	66·7	·502	+·001	·490	62	—3	52
Raipur	970	28·803	—·017	28·699	89·7	—0·5	114	V	70·0	+0·9	42	XII	76·3	85·5	68·7	71·6	·614	+·050	·601	69	+5	54
Kanker	1,318	28·473	...	28·373	88·4	...	110	V	66·0	...	40	XII	74·7	84·9	68·0	71·6	·601	...	·587	72	...	53
Chanda	634	29·163	—·013	29·046	91·0	—1·8	114	V	70·1	+1·5	43	XII	76·9	87·5	69·0	72·1	·613	+·020	·587	68	+3	50
Jagdalpur	1,813	27·987	—·011	27·890	87·5	—0·1	107	IV, V	67·0	+1·2	42	XII	73·8	82·1	67·7	69·7	·609	—·011	·567	73	—3	55
Konkan																						
Bombay	37	29·803	—·007	29·713	86·8	+0·2	101	III	74·2	+0·7	60	I, XII	78·3	82·7	73·3	75·2	·762	—·006	·777	78	0	69
Alibag	23	29·824	...	...	85·8	...	102	III	72·8	...	56	I	78·2	...	72·6	...	·737	...	...	75	...	..
Ratnagiri	207	29·638	—·001	...	86·2	—1·0	100	III	73·5	+0·3	60	I	79·6	...	73·0	...	·730	+·013	...	72	0	...
Marmagao	202	29·639	—·008	...	85·0	...	97	X	74·4	...	65	I, II	78·7	...	74·1	...	·784	...	...	80	...	...
Karwar	44	29·816	+·002	...	86·2	+0·1	94	X, XI	72·7	0	61	I, II	76·2	...	73·3	...	·782	+·027	...	87	+3	...

*Data not available for complete year, hence no annual means.

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1936.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days. (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds during the year from																			STATION.
											8 hrs. L. M. T.									17 hrs. I. S. T.										
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs I. S. T.	Total of the year.	Departure from normal.	Heaviest fall during the year in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Gujarat
4·0	+0·7	3·9	10·97	—13·73	4·31	IX	12	—16·7	5·8	...	29	60	31	20	44	73	38	18	53	31	26	6		39	87	71	42	56	Deesa.
3·0	—0·1	2·9	8·14	—6·25	3·30	VII	12	—4·3	6·4	—1·2	16	27	8	8	11	104	94	35	63	39	57	11	3	8	91	108	47	2	Bhuj.
4·3	+0·9	3·8	12·05	—1·47	3·35	VI	15	—1·6	10·2	+0·5	53	54	20	2	10	92	84	41	10	16	28	7	0	10	91	130	84	0	Dwarka.
																													*Jamnagar.
4·2	+0·8	4·6	18·16	—8·13	3·59	IX	27	—4·2	9·0	+2·1	32	41	23	9	10	94	86	46	25	45	44	15	3	10	86	87	76	0	Rajkot.
3·9	+0·4	3·9	20·57	+1·77	3·51	VI	32	+6·7	7·3	+0·3	81	48	9	7	13	49	69	62	28	9	3	2	10	33	103	140	65	1	Veraval.
4·8	+1·3	4·2	27·55	—13·42	4·49	VI	42	—4·7	4·2	—0 4	31	42	37	27	48	55	32	14	89	26	25	11	3	77	110	66	34	14	Surat.
4·1	+0·7	...	27·39	+6·19	5·90	IX	29	—0·7	5·1	—0·3	82	3	3	1	5	31	154	28	59	...	...	...	...	...	...	...	...	...	Bhavnagar.
3·6	+0·3	3·5	22·17	—6·66	3·31	VIII	30	—5·0	4·3	+0·5	25	47	44	10	18	67	76	62	17	22	30	20	13	34	75	84	59	29	Ahmadabad.
4·1	...	...	18·07	—10·62	2·17	VI	29	—12·6	5·0	...	8	52	10	40	10	101	67	19	59	...	...	...	...	...	...	...	...	...	Dohad.
3·1	...	2·8	28·12	...	2·57	VI	36	...	3·8	...	34	43	11	4	10	98	63	32	71	41	42	12	5	14	90	73	49	40	Baroda.
																													Central India, West
3·4	+0·5	4·0	21·71	—7·48	4·70	VIII	29	—7·2	6·6	+0·5	5	114	16	14	4	58	80	43	31	28	108	15	5	2	61	91	43	13	Neemuch.
4·1	+0·4	4·7	34·14	+1·02	3·64	IX	45	—0·8	4·3	+1·1	9	39	32	36	11	57	115	34	33	27	54	16	21	9	72	111	41	15	Indore.
2·8	...	3·5	51·75	...	4·34	VII	61	...	3·5	...	16	29	18	15	8	39	90	55	96	29	43	28	10	9	39	93	73	50	Bhopal.
2·4	...	2·8	54·58	...	6·03	VII	51	...	...	...	4	29	18	6	16	34	80	33	146	8	49	20	3	10	19	99	74	84	Guna.
																													Central India, East
3·5	—0·2	3·9	43·03	+0·29	3·62	VII	57	+9·0	2·9	+1·0	15	24	27	15	19	103	79	27	57	50	44	17	5	9	34	58	69	80	Nowgong.
3·4	—0·2	3·7	49·29	+4·52	2·76	VIII	68	+13·1	3·8	+0·2	11	11	41	28	45	69	92	27	42	40	32	27	10	8	27	75	111	36	Sutna.
4·7	..	5·3	54·10	...	2·78	VI	87	...	...	...	6	7	21	25	14	28	56	37	172	43	27	17	7	7	20	61	64	120	Umaria.
																													Berar
3·8	—0·1	4·5	45·77	+14·42	5·04	IX	47	+1·6	6·0	+1·5	10	13	38	10	9	5	94	97	90	43	24	29	5	5	10	69	115	66	Akola.
4·9	+1·4	...	39·57	+6·52	3·85	VI	55	+7·4	6·9	+2·5	16	70	63	10	21	73	82	26	5	...	...	...	...	...	...	...	...	...	Amraoti.
																													Central Provinces, West.
3·6	+0·3	...	40·45	+10·82	6·30	IX	53	+11·6	6·3	...	15	46	12	26	12	45	138	33	37	...	...	...	...	...	...	...	...	...	Khandwa.
3·9	+0·4	...	56·57	+7·74	7·40	VIII	65	+9·7	3·0	+0·6	7	37	57	26	15	95	41	14	74	...	...	...	...	...	...	...	...	...	Hoshangabad.
3·8	+0·6	4·3	46·96	+2·01	4·10	IX	69	+13·1	5·3	+1·4	21	39	42	30	21	58	81	47	27	51	50	22	10	11	41	85	66	30	Saugor.
4·5	+1·2	5·1	63·98	+8·87	9·02	VII	80	+16·3	3·5	+1·4	9	23	10	82	40	83	40	10	69	38	70	23	15	16	71	41	32	60	Jubbulpore.
4·3	+1·0	...	55·33	+2·11	3·50	X	76	+5·8	4·3	+1·3	83	22	17	12	16	17	47	21	131	...	...	...	...	...	...	...	...	...	Seoni.
5·4	+1·7	6·1	63·91	+14·94	6·48	X	61	—1·8	4·3	+0·4	23	65	41	9	1	42	73	71	41	7	26	60	15	7	46	71	85	49	Nagpur.
																													Central Provinces, East
4·6	+1·3	5·5	62·49	+12·43	3·69	VIII	83	+9·5	4·1	+0·6	68	29	18	27	62	33	25	55	49	74	31	15	28	51	38	28	66	35	Pendra.
4·0	+0·2	3·9	69·18	+18·35	6·85	VI	86	+22·7	...	...	16	44	10	3	3	23	90	0	177	14	33	7	1	8	10	68	0	224	Raipur.
4·4	...	5·1	77·78	...	10·13	IX	88	...	1·7	...	2	8	7	5	6	56	34	16	232	10	15	4	24	19	90	71	77	56	Kanker.
4·5	+0·8	5·1	83·24	+21·34	7·16	VI	90	+17·5	2·7	—0·1	18	7	18	19	15	43	59	26	161	33	17	19	11	18	30	47	31	160	Chanda.
4·4	+0·3	5·9	87·79	+23·99	6·78	VII	99	+16·6	3·0	...	10	8	8	7	27	43	48	7	208	21	16	4	9	33	39	58	11	175	Jagdalpur.
																													Konkan
4·4	+0·1	4·2	58·43	—12·29	5·27	VI	80	+7·5	6·7	—3·8	35	81	65	33	23	36	65	24	4	66	1	0	1	3	30	95	170	0	Bombay.
4·4	...	...	60·06	...	5·31	VI	81	...	8·8	...	28	88	30	27	29	70	20	30	44	...	...	...	...	...	...	...	...	...	Alibag.
4·2	+0·3	...	109·85	+9·87	8·20	VI	100	+7·3	7·5	+0·9	43	47	49	53	37	41	54	39	3	...	...	...	...	...	...	...	...	...	Ratnagiri.
4·4	—0·3	...	87·86	...	5·06	X	103	...	9·1	...	32	84	88	34	14	50	39	21	4	...	...	...	...	...	...	...	...	...	Marmagao.
4·2	+0·3	...	124·58	+4·46	7·14	V	114	+9·8	3·3	+0·5	79	55	7	20	10	56	4	58	77	...	...	...	...	...	...	...	...	...	Karwar.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of barometer cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity %.		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Bombay Deccan																						
Malegaon	1,430	28·390	—·008	28·278	91·6	—0·6	110	V	65·8	+0·5	41	XII	76·1	87·7	65·4	69·3	·499	—·013	·489	55	—2	39
Ahmadnagar	2,154	27·691	—·008	...	90·1	+0·5	107	V	65·7	+1·7	45	XII	74·2	...	63·5	...	·454	—·050	...	54	—6	...
Poona	1,834	28·010	—·003	27·900	89·3	—0·1	108	V	64·5	—0·2	41	XII	72·9	84·9	64·9	67·9	·523	+·002	·469	65	—2	43
Satara	2,320	27·531	...	27·431	86·5	...	104	V	66·8	...	46	I	72·5	82·9	63·6	67·4	·477	...	·469	61	...	45
Sholapur	1,570	28·248	—·016	...	93·4	+2·0	111	V	69·5	+1·2	48	XII	76·5	...	67·1	...	·546	+·047	...	60	+5	...
Miraj	1,824	28·040	...	...	89·1	...	107	V	...	...	...	...	74·4	...	67·8	...	·600	...	...	70	...	...
Bijapur	1,950	27·881	—·014	...	90·6	0	107	V	69·1	+1·3	52	XII	75·7	...	66·2	...	·524	—·042	...	59	—6	...
Belgaum	2,562	27·312	+·007	...	85·1	+0·5	103	IV	64·7	+0·6	49	I	71·2	...	65·4	...	·551	+·011	...	73	+2	...
Gadag	2,131	27·734	...	...	88·6	...	105	IV	65·1	...	53	XII	72·9	...	67·3	...	·598	...	...	73	...	...
Hyderabad, North																						
Aurangabad	1,905	27·944	—·007	...	90·1	—0·5	109	V	67·5	+1·4	46	XII	75·1	...	64·5	...	·474	—·011	...	56	+1	...
Nizamabad	1,248	28·549	—·019	...	91·1	—0·9	112	V	70·7	+2·1	46	XII	76·7	...	68·1	...	·578	—·016	...	64	0	...
Hyderabad, South																						
Gulbarga	1,503	28·328	—·001	...	92·9	+0·1	110	V	70·4	+1·3	49	XII	77·1	...	67·1	...	·540	—·027	...	59	—4	...
Raichur	1,311	28·506	—·014	...	92·7	+0·3	109	V	71·2	—0·6	56	XII	78·3	...	69·9	...	·619	+·013	...	64	0	...
Hyderabad	1,709	28·107	—·003	...	90·3	—0·1	109	V	70·3	+0·7	52	XII	75·6	...	68·8	...	·622	+·027	...	70	+1	...
Hanamkonda	877	28·921	—·017	...	90·2	—1·0	111	V	72·7	+1·6	49	XII	77·6	...	71·3	...	·684	+·086	...	73	+12	...
Mysore																						
Chitaldrug	2,405	27·458	0	...	88·4	+1·4	103	IV, V	68·8	+1·3	56	XII	74·0	...	67·9	...	·602	+·027	...	72	+2	...
Balehonnur	2,917	26·973	...	...	80·0	...	93	V	64·1	...	51	XII	68·2	...	65·7	...	·601	...	...	87	...	...
Hassan	3,149	26·765	+·002	...	84·6	+1·3	98	IV, V	65·1	+2·4	53	XI, XII	70·6	...	65·9	...	·584	+·006	...	78	0	...
Bangalore	3,021	26·877	—·001	26·784	84·5	+0·8	99	IV, V	65·6	+1·8	54	XII	70·4	80·7	66·1	66·7	·593	+·012	·491	80	+1	50
Mysore	2,518	27·365	—·005	...	86·8	+0·5	100	IV, V	66·9	+1·0	56	XII	72·5	...	67·7	...	·616	+·010	...	77	+1	...
Malabar																						
Mangalore	72	29·783	—·007	...	86·4	—1·3	93	III, XII	74·7	+0·4	68	I, XII	79·1	...	74·9	...	·810	+·025	...	81	+3	...
Calicut	27	29·835	0	...	87·5	+1·1	94	V	74·8	+0·3	68	II	78·9	...	74·7	...	·803	—·012	...	82	—2	...
Cochin	10	29·860	+·002	...	85·7	—2·1	91	III, V, XII	76·2	+1·2	70	I, XII	80·5	...	75·6	...	·811	+·006	...	79	—1	...
Trivandrum	200	29·645	—·012	29·553	86·0	+1·7	91	IV, V	76·5	+1·4	70	I	80·1	83·6	76·0	77·3	·842	+·051	·848	82	0	74
Madras, Southeast																						
Pamban	37	29·792	—·011	...	87·6	—0·1	95	V	79·1	+1·6	74	XI, XII	82·3	...	77·7	...	·885	+·020	...	80	0	...
Madura	463	29·365	—·016	...	93·8	+0·1	105	IV, V	76·2	+2·0	65	I	80·5	...	73·2	...	·718	—·032	...	70	—1	...
Negapatam	31	29·806	—·001	29·706	89·5	—0·7	102	IV	77·8	+1·6	69	I	81·4	85·1	75·4	77·1	·799	—·017	·824	75	—1	69
Trichinopoly	255	29·582	—·012	...	92·8	—1·5	105	V	75·6	+1·3	62	I	80·8	...	73·9	...	·740	+·001	...	71	—1	...
Coimbatore	1,341	28·504	—·008	...	88·5	—1·4	101	V	71·2	+1·5	60	II	77·0	...	71·2	...	·681	—·043	...	74	—7	...
Salem	913	28·922	—·010	...	92·1	—0·9	105	V	73·1	+1·9	59	I	77·8	...	72·3	...	·719	—·022	...	76	—1	...
Cuddalore	39	29·800	0	...	89·7	—0·8	103	IV	75·9	+1·1	65	I	80·8	...	75·2	...	·797	—·029	...	77	—3	...
Vellore	703	29·122	—·015	...	91·9	0	106	IV, V	73·1	+0·7	59	I	78·4	...	72·8	...	·734	+·007	...	76	—1	...
Madras	22	29·799	—·015	29·697	90·4	—0·5	105	IV	75·9	+1·4	65	I	81·3	84·8	75·7	77·1	·813	+·010	·828	77	0	70
Madras, Deccan																						
Cuddapah	428	29·406	—·001	...	94·7	—0·9	110	IV, V	75·8	+1·3	59	XII	82·0	...	73·6	...	·718	+·007	...	67	0	...
Bellary	1,473	28·351	—·013	...	91·6	—1·7	106	IV	72·3	+1·4	56	XII	77·9	...	68·8	...	·587	+·011	...	62	+1	...
Kurnool	923	28·887	—·019	...	93·3	—0·5	109	IV, V	72·7	+1·5	51	XII	78·4	...	69·9	...	·623	—·015	...	65	—3	...
Madras Coast, North																						
Nellore	66	29·747	—·012	29·637	94·0	+0·3	111	IV	76·7	+1·5	65	II, XII	82·3	88·3	75·4	76·8	·786	—·007	·766	72	—4	59
Masulipatam	10	29·803	—·016	...	88·6	—1·9	104	IV	75·5	+1·0	60	XII	80·6	...	76·3	...	·851	+·007	...	82	+1	...
Cocanada	26	29·780	—·017	29·675	88·4	—0·9	105	V	75·2	+0·2	61	XII	79·9	84·9	75·5	76·9	·828	+·031	·818	81	+3	68
Vizagapatam	126	29·668	—·014	29·577	86·3	—0·7	100	VI	76·0	+0·6	63	II, XII	80·2	83·1	74·8	76·5	·788	+·034	·823	77	+4	73
Calingapatam	19	29·774	—·011	...	88·2	—0·3	105	IV	74·9	+1·1	54	XII	78·7	...	75·2	...	·834	+·029	...	85	+4	...

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR THE YEAR 1936.

Cloud amount. (tenths of sky).			Rainfall, inches.				Number of rainy days (0·10" or more.)		Wind velocity miles per hour.		Wind direction—Number of winds during the year from																				STATION.
											8 hrs. L. M. T.										17 hrs. I. S. T.										
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the year.	Departure from normal.	Heaviest fall during the year in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																														Bombay Deccan
4·0	+1·0	5·0	25·30	+3·07	3·70	XI	35	+0·5	5·6	−0·8	21	13	10	9	10	88	132	60	23	50	57	26	11	14	53	96	56	3	Malegaon.
4·8	+1·9	...	12·48	−9·85	2·18	V	22	−14·1	6·4	−0·4	52	15	11	23	18	39	66	93	49	...	...	...	...	...	...	...	...	...	Ahmadnagar.
4·0	+0·5	4·7	18·34	−8·77	1·99	IX	37	−10·4	4·6	...	6	8	15	12	23	36	116	23	127	4	8	23	31	9	20	181	54	36	Poona.
4·0	...	4·5	31·05	...	2·82	VI	62	...	3·1	...	32	9	2	6	5	19	91	26	176	20	21	5	7	9	36	222	12	34	Satara.
4·3	+0·3	...	22·20	−6·25	2·21	XI	38	−3·3	7·1	−0·4	64	25	39	39	19	73	58	32	17	...	...	...	...	...	...	...	...	...	Sholapur.
4·7	...	...	20·77	...	2·12	IX	37	...	7·5	...	12	8	63	34	6	23	109	76	35	...	...	...	...	...	...	...	...	...	Miraj.
4·4	+0·8	...	10·61	−10·29	1·20	IX	22	−14·1	5·7	+0·4	59	16	41	28	30	36	103	51	2	...	...	...	...	...	...	...	...	...	Bijapur.
4·0	−0·6	...	42·65	−7·48	2·96	VI	95	+14·1	5·1	−4·6	18	41	39	19	10	44	125	10	57	...	...	...	...	...	...	...	...	...	Belgaum.
2·9	...	...	27·66	...	2·80	IX	48	...	7·4	...	12	47	58	18	6	33	145	42	5	...	...	...	...	...	...	...	...	...	Gadag.
																														Hyderabad, North
4·8	+1·1	...	26·28	−1·25	2·27	VIII	49	+5·4	8·7	+1·8	23	29	79	30	6	49	113	18	19	...	...	...	...	...	...	...	...	...	Aurangabad.
4·3	+0·6	...	47·54	+7·46	4·20	IX	71	+15·3	2·3	−1·6	17	22	3	14	56	77	23	22	132	...	...	...	...	...	...	...	...	...	Nizamabad.
																														Hyderabad, South
3·8	+0·5	...	18·32	−12·76	2·81	IX	27	−21·3	7·8	+1·1	29	49	70	23	21	53	89	24	8	...	...	...	...	...	...	...	...	...	Gulbarga
4·0	+0·5	...	18·82	−9·18	2·50	VI	45	+0·3	8·7	+1·7	5	28	0	92	0	166	10	65	0	...	...	...	...	...	...	...	...	...	Raichur.
4·7	+0·6	...	31·44	−0·83	3·00	XI	59	+8·9	3·2	−0·5	0	14	20	48	20	27	101	25	111	...	...	...	...	...	...	...	...	...	Hyderabad.
4·8	+0·5	...	47·86	+13·44	3·56	X	55	+4·5	6·0	+1·1	29	12	4	83	69	31	69	60	9	...	...	...	...	...	...	...	...	...	Hanamkonda.
																														Mysore
5·5	+0·7	...	20·15	−4·75	1·61	XI	52	+4·9	6·1	+0·8	1	13	72	20	6	95	108	12	39	...	...	...	...	...	...	...	...	...	Chitaldrug
6·7	...	...	103·53	...	4·62	VI	139	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Balehonnur.
5·9	+0·5	...	26·42	−8·91	1·44	XI	65	−2·1	5·2	+1·5	3	18	67	36	4	59	113	31	35	...	...	...	...	...	...	...	...	...	Hassan.
6·6	+1·4	6·7	30·37	−5·60	2·05	IX	61	+2·1	7·1	+2·0	2	33	71	43	8	66	129	12	2	13	58	85	29	10	28	102	32	9	Bangalore.
6·1	+0·5	...	36·62	+5·22	2·62	IX	66	+11·2	6·3	−0·4	3	45	35	8	12	93	78	4	88	...	...	...	...	...	...	...	...	...	Mysore.
																														Malabar
6·7	+1·6	...	154·04	+28·36	5·85	VI	135	+18·5	5·3	+2·4	20	70	162	19	5	19	10	44	17	...	...	...	...	...	...	...	...	...	Mangalore.
5·5	+0·5	...	135·69	+18·53	6·69	VII	122	+8·1	6·6	+1·2	26	45	131	13	4	8	10	35	94	...	...	...	...	...	...	...	...	...	Calicut.
6·4	+1·6	...	116·71	+2·15	8·51	V	121	−8·5	6·0	+1·5	26	142	76	40	7	4	22	31	18	...	...	...	...	...	...	...	...	...	Cochin.
5·8	+0·1	7·0	72·88	+8·37	3·65	V	103	+8·2	4·2	0	121	11	11	5	2	1	13	61	141	20	5	1	1	19	58	155	7	20	Trivandrum.
																														Madras, Southeast
4·5	+0·9	...	39·34	+2·34	3·45	XII	58	+11·5	12·3	+4·4	42	69	28	43	59	91	13	9	12	...	...	...	...	...	...	...	...	...	Pamban.
6·7	+1·7	...	29·90	−3·68	1·88	XI	50	+0·9	4·8	+1·1	61	45	46	11	4	5	85	90	19	...	...	...	...	...	...	...	...	...	Madura.
6·6	+1·5	6·4	40·82	−14·16	4·64	XI	60	+4·2	8·5	+2·8	5	37	23	21	14	60	114	68	24	7	90	51	78	47	55	32	2	4	Negapatam.
5·9	+1·4	...	31·27	−1·91	6·21	XI	40	−6·9	5·7	+1·6	68	62	10	7	11	45	107	51	5	...	...	...	...	...	...	...	...	...	Trichinopoly.
6·4	+1·9	...	21·51	−0·78	1·36	II	44	−0·4	6·3	+2·8	51	64	23	18	68	76	21	7	38	...	...	...	...	...	...	...	...	...	Coimbatore.
4·5	−0·1	...	38·70	−0·60	2·34	VII	64	+0·6	4·9	+1·6	6	98	16	2	42	107	21	9	65	...	...	...	...	...	...	...	...	...	Salem.
6·2	+1·7	...	47·56	−5·38	9·21	XI	63	+6·6	6·1	+2·6	25	8	1	6	27	157	34	94	14	...	...	...	...	...	...	...	...	...	Cuddalore.
5·5	+1·8	...	33·70	−8·71	2·62	IX	54	−2·2	4·6	+1·9	7	10	9	14	10	56	98	70	92	...	...	...	...	...	...	...	...	...	Vellore.
6·5	+1·8	6·5	44·25	−6·53	3·46	XI	71	+13·7	10·5	...	14	14	25	13	49	114	88	48	1	26	41	74	148	48	11	11	7	0	Madras.
																														Madras, Deccan
5·5	+1·3	...	20·95	−10·28	1·36	XI	43	−3·1	5·8	...	4	22	44	61	5	17	74	77	60	...	...	...	...	...	...	...	...	...	Cuddapah.
5·1	+0·6	...	17·66	−2·85	2·15	VIII	34	−1·3	5·2	+0·5	22	10	33	46	17	18	69	80	71	...	...	...	...	...	...	...	...	...	Bellary.
4·8	+0·9	...	17·02	−8·99	1·54	II	43	−3·7	7·7	+2·5	9	37	44	31	15	77	92	17	44	...	...	...	...	...	...	...	...	...	Kurnool.
																														Madras Coast, North
5·5	−0·1	5·4	50·20	+12·22	14·05	XI	53	+9·0	5·6	+1·1	13	12	11	40	82	17	112	59	20	8	35	165	56	9	17	63	10	3	Nellore.
4·9	0	...	47·41	+5·82	5·06	X	60	+5·5	5·5	+0·6	51	48	19	19	48	17	86	20	58	...	...	...	...	...	...	...	...	...	Masulipatam.
5·8	+0·9	4·7	69·50	+30·41	11·10	X	78	+24·1	4·3	−1·0	4	70	8	5	0	53	59	9	158	0	19	48	91	53	69	38	14	34	Cocanada.
5·9	+0·7	5·7	39·68	+2·59	3·90	X	54	+3·1	5·1	+1·6	31	23	5	5	11	82	114	60	25	2	35	45	37	75	129	28	10	5	Vizagapatam.
5·6	+1·8	...	46·84	+4·37	4·10	VII	64	+12·4	6·9	+0·8	53	18	6	1	11	81	105	79		...	...	...	...	...	...	...	...	...	Calingapatam.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION.	Height of bar. above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature, °F.		Wet bulb temperature, °F.		Vapour pressure, inches.			Relative humidity, %.		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. L. S. T.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 8 hrs. L. M. T.	Mean 17 hrs. L. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. L. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. L. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. L. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Hill Stations excluding Kashmir and Baluchistan.																						
Mayuyo	3,546	26·304	+·023	26·314	77·5	+0·9	89	IV	56·9	+0·5	34	I	65·1	70·0	61·6	64·4	·525	—·008	·547	83	—3	75
Haka	6,100	24·067	...	24·019	67·7	...	81	V	53·2	...	34	I	57·0	62·5	52·7	57·1	·366	...	·419	76	...	74
Kanpetlet	6,322	23·883	...	23·827	68·8	...	81	IV, V	53·3	...	37	I,II	62·1	60·4	54·7	56·0	·359	...	·408	65	...	78
Shillong	4,921	25·071	0	25·010	69·6	+0·3	82	VII	53·4	0	29	I	61·1	63·1	56·2	58·8	·418	+·003	·461	74	0	78
Cherrapunji	4,309	25·637	+·006	25·569	68·3	—0·4	81	VII	57·6	+0·5	39	I	63·4	64·2	59·0	60·6	·464	—·007	·499	77	—4	81
Darjiling	7,432	22·894	—·011	...	58·0	—1·3	74	VII	48·5	+0·8	30	I	52·0	...	49·9	...	·350	—·003	...	87	+2	...
Kalimpong	3,913	25·997	0	25·917	69·7	+0·2	82	VII	58·6	+1·0	40	II	62·3	64·3	59·2	60·7	·488	+·003	·506	83	—1	81
Katmandu	4,388	25·569	...	25·488	78·1	—0·6	95	IV	53·2	+0·1	28	I	58·9	71·0	55·4	62·6	·435	...	·491	81	...	63
Muktesar	7,592	22·804	+·012	22·762	61·2	—2·4	80	V	46·4	—1·5	24	XII	53·3	56·3	47·0	50·3	·278	+·006	·320	62	+1	67
Mussooree	6,940	23·313	+·015	23·276	62·7	—1·2	86	V	49·3	—1·4	28	XII	54·7	57·5	49·3	51·7	·319	+·010	·346	68	+3	69
Simla	7,224	23·057	—·001	23·022	61·6	—0·8	81	V	49·6	+0·4	27	XII	55·4	56·9	47·7	50·2	·274	+·017	·317	57	+5	64
Murree	7,115	23·177	...	23·151	61·7	—3·0	87	VI	47·2	—3·2	21	I	53·6	57·5	46·6	50·2	·266	—·001	·316	58	+2	61
Cherat	4,272	25·636	—·011	...	72·5	—0·1	104	V	56·8	+0·3	31	XII	61·4	...	53·0	...	·338	+·027	...	56	+4	...
Parachinar	5,673	24·370	—·016	24·325	70·9	+0·6	99	VI	49·7	+1·8	18	I	58·0	66·6	48·0	52·5	·267	—·012	·277	50	—6	39
Drosh	4,723	25·313	...	...	73·2	+0·5	102	VI, VII, VIII	52·4	+0·5	23	I	56·5	...	48·3	...	·294	+·006	...	58	0	...
Mount Abu	3,945	25·980	+·002	25·925	75·9	+0·1	93	V	...	...	41	I,II	68·6	73·2	59·0	60·5	·405	+·037	·394	57	+3	47
Pachmarhi	3,523	26·384	+·007	26·316	79·6	—0·3	103	V	61·2	+0·2	34	I,XII	70·4	75·9	61·2	63·4	·443	+·007	·442	62	0	54
Mahableshwar	4,534	25·463	...	...	74·6	...	93	IV, V	61·4	...	44	I	66·2	...	58·7	...	·414	...	...	67	...	...
Mercara	3,781	26·160	—·002	...	75·7	—0·6	88	IV	61·9	+0·8	48	II	65·8	...	63·4	...	·556	+·015	...	88	+3	...
Ootacamund	7,364	...	...	...	65·7	—0·3	76	V	49·7	+0·6	35	I	57·9	...	52·3	...	·331	—·001	...	71	+1	...
Coonoor	5,730	24·420	...	...	70·7	...	80	IV, V	55·0	...	40	I,XII	63·5	...	57·6	...	·412	...	...	71	...	...
Kodaikanal	7,688	22·781	+·014	22·732	64·1	+0·5	74	IV, V	51·2	+0·4	42	I	56·6	57·9	50·9	54·7	·315	+·004	·396	71	+3	83
Ceylon.																						
Colombo	24	29·844	+·005	...	85·7	—1·4	92	III	75·0	—0·2	67	I, XII	78·9	...	74·6	...	·812	—·028	...	85	0	...
Trincomalee	24	29·817	+·032	...	87·8	—1·5	98	V	76·8	+0·6	67	X	79·7	...	74·7	...	·791	—·046	...	78	—5	...
Hambantota	61	29·781	—·002	...	86·1	—0·4	96	VII	74·9	0	61	I	78·3	...	75·3	...	·837	+·033	...	86	—4	...
Nuwara Eliya	6,170	24·053	...	...	68·2	...	76	IV	50·5	...	29	I	57·2	...	55·4	...	·423	...	...	91	...	...
Arabia.																						
†Aden	98	29·751	+·005	...	90·8	+2·8	103	VII	78·0	0	68	XII	81·5	...	76·3	...	·844	+·052	...	78	+1	

8 hrs. (L. M. T.) and 17 hrs. (I. S. T.) FOR THE YEAR 1936.

Cloud amount, (tenths of sky.)			Rainfall, inches.				Number of rainy days, (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds during the year from																				STATION.
											8 hrs. L. M. T.										17 hrs. I. S. T.										
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total for the year.	Departure from normal.	Heaviest fall during the year in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																														Hill Stations exeluding Kashmir and Baluchistan
4·8	+0·3	4·4	51·08	—7·54	2·84	IX	93	+2·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Maymyo.
5·8	...	6·7	88·13	...	3·35	VI,X	107	...	6·7	...	19	101	68	5	5	20	4	5	139	9	44	84	37	9	17	6	7	153	Haka.
4·3	...	6·0	116·96	...	7·51	X	116	...	4·6	...	24	42	102	29	58	53	14	7	37	43	22	8	9	41	90	45	17	91	Kanpetlet.
4·5	—9·1	7·1	102·62	+18·70	15·00	V	123	—0·6	2·9	+0·7	24	31	36	14	29	72	20	4	136	33	24	11	14	34	62	21	4	163	Shillong.
6·1	+0·5	6·3	406·26	—17·81	20·88	V	159	—0·2	6·2	+2·2	3	102	68	31	27	66	23	7	39	4	62	39	40	40	127	19	5	30	Cherrapunji.
6·0	0	...	131·00	+8·33	7·18	IX	142	+18·8	4·5	+1·7	4	12	147	44	10	6	37	4	102	...	...	...	...	...	...	...	...	...	Darjiling.
5·0	+0·8	5·5	93·80	+11·98	6·43	IX	101	+0·8	6·4	...	17	1	3	51	6	0	28	186	74	2	0	20	230	74	2	0	23	15	Kalimpong.
...	...	5·1	63·93	+6·42	3·12	VIII	107	+13·0	0·9	...	10	11	29	7	2	0	3	1	298	32	4	15	8	11	7	52	35	196	Katmandu.
4·3	0	5·4	88 75	+36 47	5·50	VII	105	+23 7	7·3	+2·4	10	39	45	27	19	34	121	25	46	4	16	11	20	9	82	193	8	23	Muktesar.
4·9	+1·1	6·3	127·84	...	11·83	VIII	122	...	...	...	30	26	32	38	65	34	4	27	110	22	10	15	23	102	70	16	13	93	Mussooree.
4·5	+0·4	5·8	62·27	—1·30	2·50	VII	98	+10·8	2·4	—1·1	45	74	13	58	59	16	3	12	86	38	40	5	37	68	61	22	30	65	Simla.
4·0	+0·3	5·3	72·41	+12·56	2·79	IV	97	+19·9	5·6	...	16	65	39	91	21	15	71	56	22	6	20	21	77	38	34	84	46	40	Murree.
3·0	—0·1	...	33·73	+6·22	2·95	III	47	+5·0	8·5	+1·2	159	13	1	9	74	36	15	57	2	...	...	...	...	...	...	...	...	...	Cherat.
2·9	—0·1	5·3	27·36	—2·16	2·03	II	62	—2·8	4·5	+2·3	165	1	76	1	47	1	62	0	13	23	4	164	60	76	3	27	7	2	Parachinar.
2·3	—0·7	...	20·25	+3·50	2·60	III	50	+10·0	4·5	+1·7	1	11	33	65	20	26	8	3	199	...	...	...	...	...	...	...	...	...	Drosh.
3·6	+0·2	3·4	23·37	—37·39	4·07	IX	38	—15·7	4·6	—1·1	22	36	4	19	24	108	32	29	92	32	21	0	7	53	96	37	41	79	Mount Abu.
5·6	+2 0	5·9	74·32	—2·20	3·90	IX	89	+11·5	...	...	24	29	28	29	28	24	108	77	19	44	35	12	9	17	14	131	82	22	Pachmarhi.
4·5	...	...	227·92	—37·57	12·22	VI	124	+2·5	...	...	22	95	54	24	11	84	40	24	12	...	...	...	...	...	...	...	...	...	Mahableshwar.
6·0	—0·2	...	154·23	+28·77	8·05	VI	139	+6·6	5·1	+1·1	3	39	45	3	5	1	50	55	165	...	...	...	...	...	...	...	...	...	Mercara.
5·5	+0·2	...	54·11	—1·45	2·57	VI	101	—5·4	4·6	...	12	68	54	23	35	48	55	28	43	...	...	...	...	...	...	...	...	...	Ootacamund.
5 5	...	...	73·38	...	8·17	II	95	...	4·1	...	15	7	37	66	55	7	19	51	109	...	...	...	...	...	...	...	...	...	Coonoor.
5·3	+0 7	7·7	75·11	+12·93	5 47	XI	101	—5 6	7 0	—1·9	19	103	28	55	13	0	43	73	32	33	66	10	68	26	2	26	82	53	Kodaikanal. Ceylon.
6 3	+0·2	...	100·01	+15·85	8·82	V	112	+1·0	4·7	—0·6	6	61	55	33	12	60	58	3	78	...	...	...	...	...	...	...	...	...	Colombo.
5 8	+1·5	...	68·98	+7·39	3 94	XII	81	+8·7	8·2	+1·7	29	34	14	3	18	117	126	6	19	...	...	...	...	...	...	...	...	...	Trincomalee.
4·8	+0·2	...	35·79	—5 02	2·68	V	64	—6·6	11·8	+3·1	58	95	7	1	3	48	137	14	3	...	...	...	...	...	...	...	...	...	Hambantota.
6·7	...	...	90 67	—2·71	7 63	XII	136	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nuwara Eliya
																													Arabia.
3·2	—1·1	...	0 09	—1·87	0·05	III	0	—3·6	6·4	—2·6	10	84	46	7	51	28	23	1	116	...	...	...	...	...	...	...	...	...	†Aden.

† Records observations at 7 hrs. (L. M. T.).

TABLE II-A.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION AND MONTH.	Height of bar. cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity, %.		
		Mean 8 hrs. I. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. I. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. I. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SEYCHELLES (10 and 16 hrs. L.M.T.) (Indian ocean)	15																					
January	...	29·882	—·015	29·793	83·7	+0·6	85	4	75·1	—1·5	73	9, 23	81·7	81 6	76·3	76·1	·821	—·026	·821	77	—3	77
February	...	29·875	—·019	29 780	85·1	+1·2	87	21	76·1	—1·0	72	7	83·1	83·2	77·3	77·5	·845	—·002	·851	75	- 3	77
March	...	29·868	—·016	29·770	85·5	+0·4	88	25	76·9	—0·7	74	10	83·7	83·9	76·7	76·8	·831	—·027	·831	71	—5	71
April	...	29·876	+·001	29 782	86·4	+0·5	88	29	76·2	—2·0	72	1	84·6	84·1	77·9	77·9	·869	—·004	·876	74	—2	75
May	...	29·860	—·029	29 783	85·8	+0·9	88	4	76·0	—2·0	72	30	84·0	83·6	77·2	77·4	·831	—·026	·845	71	—5	75
June	...	29·902	—·009	29·830	83·5	+1·0	86	2	76·0	—0·8	73	19	81·5	81 6	75·9	76·0	·821	+·026	·821	77	+1	77
July	...	29·922	—·008	29·847	81·6	+0·6	83	10	74·9	—0·7	72	20	79·9	80·2	74·7	75·0	·799	+·045	·799	78	+2	78
August	...	29·926	—·012	29·851	81·0	+0·1	83	29	74·1	—1·4	70	19	79·2	79·4	74·1	74·3	·770	+·018	·770	78	+3	78
September	...	29·912	—·031	29·819	82·4	+0·6	84	4	75·7	—0·3	71	23	80·9	81·2	74·8	75·2	·785	+·002	·785	74	—2	74
October	...	29·926	—·007	29·832	83·4	+0·5	85	24	74·2	—1·8	72	14	81·3	81 5	77·8	78·0	910	+·104	·910	85	+9	85
November	...	29·915	+·007	29·828	83·3	—0·3	86	29	73·9	—1·8	71	10	81·4	80 7	76·1	76·1	·821	—·007	·835	77	0	80
December	...	29·862	—·033	29·770	83·4	0	86	25	74·7	—1·3	72	6	80·9	80·8	76·4	76·3	·835	—·002	·835	80	+1	80
Year	...	29·894	— 014	29·807	83·8	+0·5	88	III, IV, V	75·3	—1·3	70	VIII	81·9	81·8	76·3	76·4	828	+·008	·852	76	1	77
MINICOY. (Arabian Sea.)	9																					
January	...	29·915	+·002	...	86·0	+0·1	88	24	75·5	...	71	4	81·3	...	74·8	...	·779	—·018	...	73	—4	...
February	...	29·901	—·007	...	87·2	+0·8	88	12 days	75·9	...	70	22	82 2	...	74·6	...	·765	—·035	...	69	—7	...
March	...	29·877	—·005	...	88·3	+0·4	91	30	77·7	...	75	4 days	83·3	...	76·6	...	·838	+·006	...	73	—1	...
April	...	29·851	+·015	...	90·6	+1·1	92	7 days	80·1	...	75	9	85·5	...	77·3	...	·818	—·056	...	67	—7	...
May	...	29·785	—·034	...	88·8	—0·2	93	14	78·2	...	72	31	83·5	...	78 2	...	882	—·023	...	78	+1	...
June	...	29·831	+·026	...	85·1	—1·2	88	15	77·5	...	74	1, 19, 22	81·9	...	77·6	...	896	—·006	...	82	0	...
July	...	29·836	+·014	...	85·5	—0·2	89	16	77·5	...	73	31	81·6	...	77·2	...	·865	— 016	...	81	—1	...
August	...	29·854	+·008	...	86·0	+0·3	88	27, 28, 29	77·1	...	73	6	81·5	...	76 8	...	·865	+ 003	...	80	—1	...
September	...	29·833	—·032	...	85·4	—0·3	88	1	77·3	...	75	5 days	81·4	...	77·1	...	·8 5	+·015	...	82	+2	...
October	...	29·885	+·022	...	86·4	+0·3	89	22	76·7	...	73	29, 30	83·0	...	77 0	...	·845	—·017	...	75	—6	...
November	...	29·878	0	...	85·9	—0·4	90	2	77·0	...	74	27	82·3	...	76·6	...	·851	+·004	...	77	—2	...
December	...	29·873	—·025	...	85·3	—0·9	87	5 days	77·2	...	74	7, 19	81·9	...	76·2	...	·821	+·012	...	77	0	...
Year	...	29·860	—·001	...	86·7	0	93	V	77·3	...	70	II	82·5	...	76·7	...	·841	—·011	...	76	—2	...
AMINI DIVI (Arabian Sea)	13																					
January	...	29·923	—·006	...	88·5	+2·4	90	7 days	76·4	+2·4	72	4, 12	82·9	...	74·9	...	·758	—·018	...	68	—4	...
February	...	29·903	—·020	...	88·4	+1·3	91	13, 14	75·1	—0·9	70	22	83·0	...	74·1	...	·716	—·072	...	64	—8	...
March	...	29·873	—·017	...	89·9	+0·4	94	8	78·1	+0·5	74	18	84·0	...	77·3	...	·838	+·010	...	73	+1	...
April	...	29·849	+·015	...	90·3	—1·4	93	9	80·5	+0·7	76	2	86·1	...	78·3	...	·849	—·028	...	69	—2	...
May	...	29·753	—·055	...	89·1	—2·4	95	19	80·8	+0·2	74	28	85·7	...	79·5	...	·908	—·006	...	75	+1	...
June	...	29·793	+·026	...	84·4	—2·9	87	4 days	76·4	—1·7	74	7 days	81·4	...	78·1	...	·910	—·015	...	86	+4	...
July	...	29·793	+·005	...	85·0	—0·7	86	15 days	78·5	+1·1	75	4 days	82·6	...	78·6	...	·935	+·043	...	83	0	...
August	...	29·816	—·007	...	84·6	—1·1	86	28	77·7	+0·3	73	6	82·1	...	77·7	...	·896	+·016	...	82	0	...
September	...	29·805	—·043	...	85·7	—0·1	90	20, 25	77·7	+0·5	73	15	81·7	...	77·6	...	·903	+·039	...	83	+2	...
October	...	29·865	+·008	...	87·0	+0·6	92	14, 28, 29	76·9	+0·1	73	20	83·1	...	77·8	...		+·014	...	78	—2	...
November	...	29·870	—·005	...	86 0	—0·5	90	30	76·0	+0·5	72	30	81·8	...	77·6	...	·882	+·039	...	82	+6	...
December	...	29·874	—·034	...	88·3	+2 0	91	29, 30	76·1	+2·3	70	3	83·6	...	76·5	...	·903	+·049	...	71	—1	...
Year	...	29·843	—·011	...	87·3	—0·2	95	V	77·5	+0·5	70	II, XII	83·2	...	77·3	...	·861	+·009	...	76	0	...

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR EACH MONTH AND THE YEAR 1936.

Cloud amount. (tenths of sky.)			Rainfall, inches.				Number of rainy days (0·10" or more.)		Wind velocity-miles per hour.		Wind direction—Number of winds from																STATION AND MONTH.
											8 hrs. L. M. T.									17 hrs. I. S. T.								
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I.S.T.	Total of the month or year.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month or year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm.	N	NE	E	SE	S	SW	W	NW	Calm.	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													SEYCHELLES (Indian Ocean).
6·7	0	7·4	15·51	—0·49	3·90	31	11	—4·1	5·0	...	9	4	2	0	0	0	2	13	1	6	2	0	1	1	0	4	15	2	January
6·6	+0·2	6·8	8·56	—3·15	2·91	7	12	+1·9	4·9	...	7	7	2	1	1	0	2	8	1	5	4	5	1	0	0	3	9	2	February
5·1	—0·5	5·6	2·43	—7·41	0·81	10	5	—6·1	6·2	...	5	4	2	1	0	0	2	14	3	6	3	3	1	0	1	2	15	0	March
5·3	0	5·3	6·45	—1·27	1·32	17	12	+1·7	4·7	...	2	3	7	5	0	0	0	11	2	2	3	4	2	2	1	1	10	5	April
5·3	+0·1	5·9	13·13	+6·65	3·84	15	9	—0·5	6·1	...	1	0	7	12	6	1	0	2	2	0	0	5	12	7	0	1	2	4	May
6·2	+0·3	6·1	4·74	+0·24	1·35	15	11	+2·6	10·4	...	0	1	11	15	3	0	0	0	0	0	0	8	17	4	1	0	0	0	June
6·5	+0·6	6·7	5·31	+2·23	1·26	21	10	+2·5	10·9	...	0	0	9	18	4	0	0	0	0	0	0	7	18	4	1	1	0	0	July
6·7	+0·6	6·7	13·12	+10 91	2·52	19	14	+8·1	11·0	...	0	0	9	14	7	1	0	0	0	0	1	8	13	6	3	0	0	0	August
6·3	+0·4	6·8	2·48	—2·90	1·50	18	3	—4·6	11·5	...	0	0	10	16	3	0	0	1	0	0	0	9	16	4	1	0	0	0	September
5·6	+0·1	6·0	5·16	—0·59	1·66	14	9	+1·1	5·3	...	0	3	6	5	4	0	1	9	3	1	1	3	6	7	0	2	7	4	October
6·1	+0·1	7·2	16·25	+6·79	4·98	12	14	+2·1	5·0	...	1	2	6	4	2	0	2	10	3	1	2	5	2	3	1	3	12	1	November
7·4	+1·1	8·1	14 11	+0·49	4·09	19	18	+2·7	6·8	...	2	6	2	1	0	1	2	14	3	3	0	1	2	1	2	9	10	3	December
6·1	+0·2	6·5	107·25	+11·50	4·98	XI	128	+7·4	7·3	...	27	30	73	92	30	3	11	82	18	24	16	58	91	39	11	26	80	21	*Year*
																													MINICOY. (Arabian Sea.)
4·1	+1·1	...	0·04	—1·84	0·04	17	0	—2·7	2·5	—1·1	6	12	1	3	0	0	0	0	9	...	...	...	...	...	...	...	...	...	January
3·1	+0·1	...	0·06	—0·59	0·05	2	0	—1·1	2·1	—1·2	6	13	0	1	1	0	0	0	8	...	...	...	...	...	...	...	...	...	February
5·3	+2·5	...	2·61	+1·57	2·15	18	2	+0·4	2·4	—0·9	10	6	1	1	2	2	0	1	8	...	...	...	...	...	...	...	...	...	March
4·8	+0·9	...	0·05	—2·57	0·05	7	0	—3·6	3·1	—1·0	4	2	0	0	0	1	3	14	6	...	...	...	...	...	...	...	...	...	April
7·6	+2·6	...	16·63	+10·24	2·40	31	16	+7·4	6·4	+0 3	3	0	0	0	0	0	11	16	1	...	...	...	...	...	...	...	...	...	May
8·6	+1·8	...	12·66	+0·75	2·62	1	18	+0·7	9·9	—0 6	1	0	0	0	0	14	13	1	1	...	...	...	...	...	...	...	...	...	June
8·5	+2 2	...	7·90	—0·90	1·58	29	17	+3·1	7·1	—3·2	0	0	0	0	0	3	22	5	1	...	...	...	...	...	...	...	...	...	July
6·8	+1·3	...	6·38	—0·78	1·96	6	12	+1·0	6·0	—2·2	3	0	0	0	0	1	16	11	0	...	...	...	...	...	...	...	...	...	August
7·1	+2·1	...	9·51	+3·10	1·33	4	16	+5·9	5·2	—1·3	5	0	1	0	0	2	8	12	3	...	...	...	...	...	...	...	...	...	September
5·0	—0 2	...	0·79	—7·53	0·29	1	2	—9·6	3·3	—1·9	7	1	2	2	1	0	8	8	3	...	...	...	...	...	...	...	...	...	October
6·2	+1·7	...	4·08	—1·21	1·35	28	10	+2·9	5·2	+1·3	4	0	3	0	3	9	3	6	...	...	...	...	...	...	...	...	...	...	November
6·7	+3 2	...	4·20	+0·69	1·42	17	5	+0·8	1·9	—1·7	8	11	0	0	2	0	0	0	10	...	...	...	...	...	...	...	...	...	December
6·1	+1·6	...	64·91	+0·93	2·62	VI	98	+5·2	4·6	—1·1	57	45	5	10	6	26	90	71	56	...	...	...	...	...	...	...	...	...	*Year*
																													AMINI DIVI. (Arabian Sea.)
4·1	+0·4	...	0	—0·70	0	...	0	—1·1	3·5	—0·5	18	8	1	0	0	0	0	4	0	...	...	...	...	...	...	...	...	...	January
3·5	0	...	0·02	—0·06	0·02	9	0	—0·3	4·0	—1·0	14	4	1	0	1	0	0	8	1	...	...	...	...	...	...	...	...	...	Feb-uary
4·2	+1·1	...	0·62	+0·57	0·54	18	1	+0·9	4·1	—1·0	16	5	2	1	0	0	0	7	0	...	...	...	...	...	...	...	...	...	March
3·3	—0·9	...	1·43	—0·07	1·07	1	2	+0·3	5·8	+0·1	13	1	0	0	0	0	0	16	0	...	...	...	...	...	...	...	...	...	April
6·7	+1·1	...	11·30	+7·63	4·30	28	10	+5·3	9·3	+2·0	2	0	0	0	0	1	9	18	1	...	...	...	...	...	...	...	...	...	May
9·1	+1·3	...	23·88	+9·57	4·05	7	22	+5·5	8·9	—3·8	0	0	0	0	0	7	19	2	2	...	...	...	...	...	...	...	...	...	June
7·5	—0·1	...	6·06	—5·94	1·45	30	13	—2·7	11·4	—2·7	0	0	0	0	0	2	24	5	0	..	...	...	...	...	...	...	...	...	July
6·3	—0·7	...	3·30	—1·35	2·38	6	16	+4·6	12·8	—0·2	0	0	0	0	0	0	21	10	0	...	...	...	...	...	...	...	...	...	August
8·0	+1·7	...	7·76	+1·41	3·40	28	13	+2·5	7·9	—2·2	8	1	0	0	0	1	7	13	0	...	...	...	...	...	...	...	...	..	September
6·2	+0·1	...	4 72	—1·06	1·06	20	8	—0·7	5·2	—1·3	10	2	1	0	1	0	3	10	4	...	...	...	...	...	...	...	...	...	October
6·2	+1·4	...	9·86	+7·28	2·61	6	13	+8·8	2·7	—1·0	10	7	0	1	0	5	2	3	2	...	...	...	...	...	...	...	...	...	November
4·7	+1·1	...	0·46	—0·81	0·40	18	1	—1·0	3·3	—0·1	20	9	0	0	0	0	0	1	1	...	...	...	...	...	...	...	...	...	December
5·8	+0·5	...	72·41	+16·44	4·30	V	99	+22·1	6·6	—0·9	111	37	5	2	2	16	85	97	11	...	...	...	...	...	...	...	...	...	*Year*

TABLE II-A.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION AND MONTH.	Height of bar. cistern above mean sea-level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity, %.		
		Mean 8 hrs. L.M.T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean	Departure from normal.	Lowest.	Date.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I.S.T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
CAR NICOBAR (Bay Islands)	19																					
January	...	29·856	+·005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
February	...	29·902	+·040	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
March	...	29·888	+·052	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
April	...	29·819	+·002	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
May	...	29·767	—·003	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
June	...	29·775	+·033	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
July	...	29·770	+·027	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
August	...	29·797	+·037	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
September	...	29·833	+·048	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
October	...	29·862	+·061	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
November	...	29·881	+·062	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
December	...	29·847	+·013	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Year	...	29·832	+·031	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
TABLE ISLAND (Bay Islands)	105																					
January	...	29·817	—·023	...	82·1	—0·9	85	14	73·1	—2·0	69	4, 5, 24	77·8	...	71·2	...	·670	—·040	...	72	—1	...
February	...	29·812	—·001	...	83·9	+0·1	85	8 days	72·4	—2·4	69	7, 9	78·0	...	71·3	...	·670	—·043	...	70	—4	...
March	...	29·798	+·011	...	86·3	—0·3	89	18	74·2	—2·1	70	8	80·5	...	75·2	...	·792	+·001	...	77	0	...
April	...	29·706	—·034	...	86·1	—3·3	93	16	75·7	—3·5	74	24, 26	81·2	...	76·1	...	·828	—·021	...	75	+1	...
May	...	29·626	—·033	...	88·7	+0·3	92	9, 10, 19	79·7	+0·2	75	24	84·4	...	80·0	...	·961	+·031	...	82	+1	...
June	...	29·585	—·017	...	81·6	—3·7	87	3, 10	75·9	—1·9	71	7	81·1	...	78·8	...	·955	—·002	...	89	+1	...
July	...	29·587	—·014	...	84·3	0	88	9	77·5	+0·3	73	9	81·1	...	78·4	...	·923	—·034	...	87	—3	...
August	...	29·604	—·024	...	83·7	—0·3	87	31	76·0	—1·2	72	10	80·9	...	77·8	...	·916	—·025	...	86	—3	...
September	...	29·663	—·007	...	84·4	+0·1	87	5 days	77·5	+0·4	72	29	81·6	...	78·1	...	·910	—·013	...	85	—3	...
October	...	29·749	+·012	...	84·4	—0·8	86	8	78·0	+0·3	75	1	81·7	...	76·0	...	·821	—·074	...	76	—8	...
November	...	29·787	+·012	...	84·8	—0·1	86	5 days	76·9	—0·9	74	4, 27, 29	81·0	...	75·8	...	·828	—·026	...	78	—2	...
December	...	29·791	—·024	...	84·2	+1·1	86	17, 29	77·0	+0·7	74	2	80·6	...	75·2	...	·792	+·051	...	77	+3	...
Year	...	29·710	—·012	...	84·5	—0·7	93	IV	76·2	—1·0	69	I, II	80·8	...	76·2	...	·839	—·016	...	79	—2	...
THATON (Lower Burma)	56																					
January	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
February	...	29·858	...	29·779	90·0	...	94	12	66·6	...	60	18	74·5	80·4	68·1	70·5	·455	...	·632	70	...	60
March	...	29·852	...	29·745	95·9	...	98	5 days	73·0	...	66	4	79·7	86·0	72·5	73·9	·722	...	·687	70	...	55
April	...	29·776	...	29·664	95·0	...	98	4 days	77·4	...	73	27	82·7	86·0	76 8	77·8	·845	...	·849	74	...	72
May	...	29·722	...	29·614	91·3	...	97	5, 6, 9	76·5	...	73	4 days	81·0	84·6	77·1	77·8	·872	...	·862	83	...	74
June	...	29·688	...	29·634	84·5	...	89	20	74·1	...	71	15	77·5	79·7	75·6	76·8	·869	...	·885	91	...	87
July	...	29·682	...	29·624	82·3	...	88	8, 25	74·3	...	73	7 days	76·5	78·9	75·6	76·8	·882	...	·899	96	...	90
August	...	29·701	...	29·636	83·1	...	89	16	74·2	...	71	7	76·9	78·9	75·3	76·3	·862	...	·846	93	...	89
September	...	29·750	...	29·660	86·6	...	93	23, 26, 27	74·5	...	71	25	78·2	80·3	76·1	77·6	·869	...	·923	91	...	87
October	...	29·855	...	29·768	88·2	...	93	31	72·5	...	67	20, 21, 22	79·9	79·5	73·8	75·9	·757	...	·848	74	...	83
November	...	29·894	...	29·808	90·8	...	95	7	71·8	...	64	30	80·3	79·5	73·4	75·7	·716	...	·842	71	...	84
December	...	29·859	...	29·777	91·1	...	93	4 days	68·8	...	65	18, 21	77·3	79·2	71·5	73·3	·676	...	·729	75	...	74
Year	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR EACH MONTH AND THE YEAR 1936.

Cloud amount (tenths of sky).			Rainfall, inches.				Number of rainy days. (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																STATION AND MONTH.
											8 hrs. L. M. T.									17 hrs. I. S. T.								
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the month or year.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month or year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													CAR NICOBAR (Bay Islands)
7·0	...	...	5·47	+1·36	1·95	10	8	+3·8	8·7	...	4	15	10	2	0	0	0	0	0	...	...	...	...	...	...	...	...	...	January
5·0	...	...	2·27	+1·16	1·06	2	2	0	6·3	...	6	15	7	0	0	0	0	0	1	...	...	...	...	...	...	...	...	...	February
6·7	...	...	6·41	+5·03	2·26	25	14	+12·0	7·3	...	0	12	17	1	1	0	0	0	0	...	...	...	...	...	...	...	...	...	March
5·1	...	...	5·29	+2·22	1·58	21	9	+3·7	3·1	...	1	7	7	2	4	2	0	1	6	...	...	...	...	...	...	...	...	...	April
6·2	...	...	9·08	−3·75	2·39	20	13	−1·3	1·9	...	0	0	2	3	2	7	2	3	12	...	...	...	...	...	...	...	...	...	May
8·1	...	...	4·82	−7·71	1·57	24	10	−4·6	2·3	...	0	0	0	0	5	16	3	0	6	...	...	...	...	...	...	...	...	...	June
8·6	...	...	8·72	−0·37	1·36	8	17	+4·9	2·5	...	0	0	0	1	1	20	5	0	4	...	...	...	...	...	...	...	...	...	July
9·0	...	...	9·47	−1·04	3·26	11	17	+3·8	3·0	...	0	0	0	0	2	25	4	0	0	...	...	...	...	...	...	...	...	...	August
8·3	...	...	16·82	+4·36	6·16	26	16	+1·5	2·2	...	1	1	2	2	5	11	2	2	4	...	...	...	...	...	...	...	...	...	September
8·1	...	...	12·20	+0·94	2·40	31	11	−3·3	4·9	...	2	7	9	2	2	6	2	1	0	...	...	...	...	...	...	...	...	...	October
7·0	...	...	4·58	−6·04	1·10	28	9	−3·0	5·3	...	4	6	14	1	2	1	0	0	2	...	...	...	...	...	...	...	...	...	November
8·3	...	...	6·64	−1·23	1·91	26	12	+3·3	9·0	...	1	6	19	4	1	0	0	0	0	...	...	...	...	...	...	...	...	...	December
7·3	...	...	91·77	−5·07	6·16	IX	138	+20·8	4·7	...	19	69	87	18	25	88	18	7	35	...	...	...	...	...	...	...	...	...	*Year*
																													TABLE ISLAND (Bay Islands)
5·7	+1·6	...	0	−0 77	0	...	0	−0·7	9·3	+2·0	9	19	2	0	0	0	0	1	0	...	...	...	...	...	...	...	...	...	January.
6·3	+3·1	...	0	−0·12	0	...	0	−0·3	7·7	+1·2	18	7	0	1	0	0	0	2	1	...	...	...	...	...	...	...	...	...	February.
6·0	+2·5	...	1·56	+1·39	0·66	28	3	+2·7	5·3	−0·1	18	10	0	0	0	0	1	1	1	...	...	...	...	...	...	...	...	...	March.
6·9	+2·9	...	4·66	+4·03	1·43	25	4	+2·9	5·3	−0·2	7	5	1	1	6	4	4	2	0	...	...	...	...	...	...	...	...	...	April.
6·7	+0·4	...	3·83	−4·92	1·27	26	6	−4·7	9·5	−0·4	5	0	0	0	9	10	4	1	2	...	...	...	...	...	...	...	...	...	May.
9·3	+1·6	...	18·73	+3·63	2·77	10	23	+6·2	16·0	+0·4	0	0	0	0	9	16	2	0	3	...	...	...	...	...	...	...	...	...	June.
7·7	−0·3	...	10·77	−2·74	1·95	1	14	−3·6	15·8	−1·7	0	0	0	0	14	16	1	0	0	...	...	...	...	...	...	...	...	...	July.
9·5	+1·5	...	18·53	+7·06	3·99	1	17	+0·8	16·0	−0·8	0	0	0	0	10	19	2	0	0	...	...	...	...	...	...	...	...	...	August.
9·2	+2·2	...	12·08	+0·74	5·00	5	11	−4·6	9·5	−1·8	1	0	0	0	6	10	1	0	12	...	...	...	...	...	...	...	...	...	September.
4·3	−1·4	...	3·50	−2·99	2·10	1	6	−4·2	8·7	+1·5	2	10	3	0	5	1	4	0	6	...	...	...	...	...	...	...	...	...	October.
4·2	−1·1	...	2·41	−3·24	1·18	7	4	−2·8	1·4	−5·3	5	6	3	2	0	0	0	0	14	...	...	...	...	...	...	...	...	...	November.
5·3	+0·5	...	2·50	+0·13	1·76	3	3	+0·7	6·7	−1·0	10	16	0	0	1	0	0	0	4	...	...	...	...	...	...	...	...	...	December.
6·8	+1·2	...	78·57	+2·20	5·00	IX	91	−7·6	9·3	−0·5	75	73	9	4	60	76	19	7	43	...	...	...	...	...	...	...	...	...	*Year*
																													THATON (Lower Burma.)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	January
1·9	...	2·1	0·42	+0·22	0·39	14	1	+0·6	1·9	...	1	1	8	11	1	2	1	1	3	1	0	0	3	7	4	0	1	13	February
1·9	...	2·0	0	−0 80	0	...	0	−0·9	3·1	...	1	4	15	10	0	0	0	1	0	0	0	0	5	12	13	1	0	0	March
4·9	...	3·4	4·70	+1·88	1·77	24	5	+1·3	3·3	...	1	3	13	5	2	0	2	2	2	0	0	0	4	16	8	2	0	0	April
6·3	...	5·7	21·07	−2·6	4·45	31	15	−3·8	3·5	...	1	3	9	15	0	0	0	2	1	0	0	0	3	16	9	0	0	3	May
8·6	...	8·6	44·80	+2·5	4·11	10	28	+1·3	3·8	...	0	1	10	16	1	2	0	0	0	0	0	2	5	8	11	2	1	1	June
9·8	...	8·8	73·28	+21·86	8·89	1	30	+1·9	3·2	...	1	1	8	14	3	1	1	1	1	2	0	1	6	12	9	0	0	1	July
9·0	...	8·9	54·72	+4·99	4·41	6	29	+0·9	3·7	...	1	4	8	9	1	5	0	2	1	0	1	0	8	7	11	1	2	1	August
7·6	...	6·6	28·35	−3·58	3·95	30	21	−1·4	2·5	...	0	7	8	7	1	2	0	0	5	0	3	1	5	4	7	1	0	9	September
3·3	...	3·5	11 12	+0·37	3·09	1	8	−3·6	2·1	...	2	12	7	3	0	2	1	1	3	2	3	2	4	1	6	0	0	13	October
2·5	...	2·0	0·55	−1·61	0·52	11	1	−1·9	1·6	...	2	7	8	7	1	0	1	2	2	4	6	1	3	0	1	0	0	15	November
2·5	...	2·0	0	−0 32	0	...	0	−0·5	1·3	...	4	4	5	6	2	0	1	7	2	2	6	0	1	0	1	0	1	20	December
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*Year*

TABLE II-A.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION AND MONTH.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity, %.		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean. 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
GYANTSE (Tibet)	13,110																					
January	...	18·336	...	...	44·5	...	54	15	8·2	...	0	28	15·9	...	14 9	...	·081	...	...	90	...	...
February	...	18·349	...	...	39·8	...	53	28	10·5	...	0	2	19·3	...	18·5	...	·097	...	...	92	...	...
March	...	18·482	...	...	50·5	...	61	17	20·1	...	12	14	31·7	...	29·6	...	·150	...	...	85	...	...
April	...	18·443	...	...	57·9	...	66	30	28·8	...	22	10, 14, 16	42·0	...	35·2	...	·142	...	...	57	...	...
May	...	18·507	...	...	66·0	...	75	22, 23	36·7	...	27	9	49·4	...	42·6	...	·216	...	...	63	...	...
June	...	18·475	...	...	66·6	...	76	21, 22, 29	41·8	...	35	8	52·1	...	46·4	...	·262	...	...	71	...	...
July	...	18·488	...	...	69·5	...	80	3	46·9	...	43	1, 25	55·0	...	50·7	...	·334	...	...	79	...	...
August	...	18·492	...	...	69·0	...	78	14	45·7	...	42	10	53·0	...	49·8	...	·334	...	...	84	...	...
September	...	18·554	...	...	67·4	...	75	9	40·2	...	35	23	49·9	...	46·0	...	·275	...	...	77	...	...
October	...	18·555	...	...	58·7	...	71	5	28·7	...	17	21	39·9	...	35·7	...	·176	...	...	72	...	...
November	...	18·537	...	...	54·6	...	64	10	19·9	...	11	25	30·2	...	28·6	...	·148	...	...	87	...	...
December	...	18·411	...	...	41·5	...	54	2	12·2	...	0	31	20·7	...	19·1	...	·094	...	...	84	...	...
Year	...	18·469	...	...	57·3	...	80	VII	28·3	...	0	I, II, XII	38·3	...	31·8	...	·192	...	...	78	...	...
***KASHGAR (Eastern Turkistan)**	4,296																					
January	...	25·56	—·16	...	32·4	—1·7	51	31	5·6	—6·6	2	13	8·6	...	7·3	...	·047	—·040	...	74	—2	...
February	...	25·39	—·27	...	46·5	+3·3	62	19	21·0	+1·2	13	2	25·1	...	23·9	...	·120	+·017	...	86	+15	...
March	...	25·45	—·13	...	55·3	—2·2	71	31	30·7	—4·4	21	5	38·2	...	34·4	...	·150	—·003	...	71	+14	...
April	...	25·30	—·23	...	71·7	—0·3	87	17, 21	(d) 44·9	—3·6	32	10	56·3	...	49·0	...	·261	+·046	...	60	+13	...
May	...	25·33	—·19	...	81·3	—0·7	97	30	57·3	—0·6	48	2, 4	68·5	...	60·0	...	·419	+·109	...	60	+14	...
June	...	25·25	—·18	...	86·6	—3·2	102	12	61·8	—2·3	49	24	74·0	...	64·1	...	·479	+·088	...	59	+15	...
July	...	25·19	—·20	...	91·8	—0·7	99	4, 5, 18	67·0	—0·7	57	16	77·3	...	67·3	...	·544	+·082	...	60	+11	...
August	...	25·28	—·19	...	86·4	—4·1	93	30, 31	62·7	—3·0	54	27	72·1	...	63·6	...	·496	+·032	...	63	+9	...
September	...	25·38	—·21	...	83·8	0	93	1, 8	56·6	—0·4	47	25, 27	65·9	...	57·6	...	·383	+·040	...	60	+5	...
October	...	25·55	—·15	...	74·5	+3·6	78	15, 16, 21	40·7	—2·0	35	10	50·4	...	44·7	...	·236	+·030	...	63	+6	...
November	...	25·61	—·14	...	54·1	+0·8	66	2, 29, 30	29·9	+1 4	24	22, 23	34·3	...	30·8	...	·137	+·002	...	69	+2	...
December	...	25·61	—·16	...	31·5	—5·8	49	1	13·7	—3 0	0	23	18·0	...	16·7	...	·081	—·001	...	79	0	...
Year	...	25·41	—·18	...	66·3	—0·9	102	VI	41·0	—2·0	0	XII	49·1	...	43·3	...	·279	+·033	...	67	+8	...
KABUL (Afghanistan)	5,956																					
January	...	24·317	...	...	38·7	...	56	30, 31	20·3	...	7	13	23·7	...	19·9	...	·069	...	...	76	...	...
February	...	24·225	...	...	49·5	...	58	11, 15	33·7	...	25	27	37·7	...	33·1	...	·136	...	...	63	...	...
March	...	24··97	...	...	52·1	...	67	30, 31	33·7	...	21	3, 4, 10	42·2	...	35·5	...	·129	...	...	52	...	...
April	...	24·233	...	...	67·1	...	79	16	42·9	...	32	9	57·5	...	47·4	...	·207	...	...	47	...	...
May	...	24·104	...	...	84·4	...	95	30	55·7	...	45	7	73·4	...	58·1	...	·302	...	...	39	...	...
June	...	24·114	...	...	88·8	...	97	20	57·5	...	47	24	78·8	...	62·3	...	·364	...	...	38	...	...
July	...	24·076	...	...	92·6	...	100	25	60·2	...	53	9	82·2	...	65·1	...	·418	...	...	39	...	...
August	...	24·103	...	...	90·4	...	97	16	58·1	...	49	8	78·0	...	60·7	...	·335	...	...	35	...	...
September	...	24·218	...	...	86·8	...	97	1	54·1	...	43	30	72·5	...	57·6	...	·309	...	...	38	...	...
October	...	24·338	...	...	77·0	...	81	3, 14	43·0	...	38	27	52·4	...	43·1	...	·170	...	...	45	...	...
November	...	24·366	...	...	60·6	...	68	1	30·9	...	27	21, 23, 24	36·5	...	31·0	...	·116	...	...	54	...	...
December	...	24·282	...	...	43·0	...	62	1	25·9	...	15	4 days	27·7	...	25·0	...	·110	...	...	71	...	...
Year	...	24·230	...	...	69·3	...	100	VII	42·8	...	7	I	55·2	...	44·9	...	·222	...	...	48	...	...

*Aneroid barometer in use.
(d) Mean of 27 days.
(h) Mean of 23 days.

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR EACH MONTH AND THE YEAR 1936.

Cloud amount, (tenths of sky.)			Rainfall, inches.				Number of rainy days. (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																				STATION AND MONTH.
											8 hrs. L. M. T.									17 hrs. I. S. T												
Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs I. S. T.	Total of the month or year.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month or year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													GYANT (Tibet)
1·1	...	...	0	...	0	...	0	...	(h) 5·5	...	1	0	0	6	5	0	0	0	19	...	...	...	...	...	...	...	...	...	January
3·6	...	...	0·19	...	0·10	14	1	...	4·7	...	0	1	2	6	4	0	0	0	16	...	...	...	...	...	...	...	...	...	February
1·7	...	...	0	...	0	...	0	...	6·1	...	1	0	2	13	4	1	0	0	10	...	...	...	...	...	...	...	...	...	March
2·6	...	...	0	...	0	...	0	...	6·6	...	0	0	0	16	0	1	0	0	13	...	...	...	...	...	...	...	...	...	April
4·3	...	...	1·09	...	0·52	31	3	...	4·2	...	1	0	5	4	7	0	0	1	13	...	...	...	...	...	...	...	...	...	May
5·0	...	...	2·87	...	0·58	1	11	...	3·2	...	4	0	0	5	1	0	0	2	18	...	...	...	...	...	...	...	...	...	June
7·6	...	...	2·74	...	0·94	25	10	...	2·6	...	2	0	0	2	3	0	2	2	20	...	...	...	...	...	...	...	...	...	July
7·8	...	...	4·12	...	0·89	30	12	...	2·1	...	3	0	1	5	0	0	0	0	22	...	...	...	...	...	...	...	...	...	August
4·3	...	...	1·87	...	0·61	24	5	...	2·4	...	2	0	1	4	1	0	0	0	22	...	...	...	...	...	...	...	...	...	September
2·5	...	...	0·17	...	0·17	31	1	...	3·0	...	0	0	1	11	6	0	0	0	13	...	...	...	...	...	...	...	...	...	October
1·0	...	...	0·03	...	0·03	1	0	...	2·5	...	0	0	0	2	4	0	0	0	24	...	...	...	...	...	...	...	...	...	November
0·6	...	...	0	...	0	...	0	...	4·0	...	0	0	5	3	1	0	0	1	21	...	...	...	...	...	...	...	...	...	December
3·5	...	...	13·08	...	0·94	VII	43	...	3·9	...	14	1	17	77	36	2	2	6	211	...	...	...	...	...	...	...	...	...	*Year*
																													*KASHGAR (Eastern Turkistan)
3·3	—1·8	...	0·02	—0·15	0·02	4	0	—0·8	0·6	+0·1	0	0	1	0	0	2	0	0	28	...	...	...	...	...	...	...	...	...	January
(d) 5·9	+1·3	...	0·01	—0·16	2·01	28	0	—0·5	1·3	+0·5	3	2	0	1	0	0	1	1	21	...	...	...	...	...	...	...	...	...	February
5·5	+0·7	...	0	—0·31	0	...	0	—0·7	2·0	+0·4	4	3	1	0	0	0	2	3	18	...	...	...	...	...	...	...	...	...	March
(d) 4·8	+0·2	...	1·98	+1·74	0·95	8	3	+2·1	2·7	+0·4	5	1	0	2	2	0	0	6	14	...	...	...	...	...	...	...	...	...	April
(h) 4·9	+1·6	...	0	—0·65	0	...	0	—1·2	2·3	—0·2	1	6	3	2	4	0	0	3	12	...	...	...	...	...	...	...	...	...	May
2·6	+0·2	...	0·13	—0·14	0·13	23	1	+0·2	2·5	—0·4	2	9	2	0	1	0	0	0	16	...	...	...	...	...	...	...	...	...	June
3·1	+0·3	...	0·32	+0·08	0·30	18	1	+0·2	2·6	—0·2	2	4	1	1	0	1	1	1	20	...	...	...	...	...	...	...	...	...	July
4·2	+0·7	...	0	—0·53	0	...	0	—1·6	1·9	—0·1	2	7	1	0	1	1	1	4	14	...	...	...	...	...	...	...	...	...	August
1·6	—0·9	...	0	—0·27	0	...	0	—0·7	1·4	0	0	1	0	0	1	0	3	1	24	...	...	...	...	...	...	...	...	...	September
2·5	+0·2	...	0	—0·02	0	...	0	—0·1	1·0	0	0	1	0	0	1	0	0	3	26	...	...	...	...	...	...	...	...	...	October
2·3	—0·4	...	0	+0·15	0	...	0	—1·1	1·5	+0·9	0	2	0	1	2	0	1	0	24	...	...	...	...	...	...	...	...	...	November
3·7	—0·6	...	0·15	+0·01	0·03	22	0	—0·4	0·8	+0·3	1	0	1	0	0	1	0	1	27	...	...	...	...	...	...	...	...	...	December
3·7	+0·1	...	2·61	—0·55	0·95	IV	5	—4·6	1·7	+0·1	20	36	10	7	12	5	9	23	244	...	...	...	...	...	...	...	...	...	*Year*
																													Kabul (Afghanistan)
2·7	...	...	0·57	...	0·45	3	2	...	2·9	...	1	0	0	1	14	15	0	0	0	...	...	...	...	...	...	...	...	...	January
7·4	...	...	2·14	...	0·47	27	6	...	1·0	..	2	1	1	3	8	9	2	3	0	...	...	...	...	...	...	...	...	...	February
5·0	...	...	0·78	...	0·19	25	4	...	1·4	...	1	1	0	4	12	10	1	2	0	...	...	...	...	...	...	...	...	...	March
3·7	...	...	2·01	...	0·51	20	5	...	1·4	...	2	2	1	6	10	6	2	1	0	...	...	...	...	...	...	...	...	...	April
2·1	...	...	0·76	...	0·40	20	2	...	1·4	...	2	2	0	1	11	11	3	1	0	...	...	...	...	...	...	...	...	...	May
0·5	...	...	0·03	...	0·03	8	0	...	2·5	...	8	8	1	3	5	2	1	2	0	...	...	...	...	...	...	...	...	...	June
0·2	...	...	0·08	...	0·08	20	0	...	1·7	...	6	6	4	3	5	4	0	3	0	...	...	...	...	...	...	...	...	...	July
1·1	...	...	0·25	...	0·25	20	1	...	0·9	...	3	3	2	4	7	5	1	6	0	...	...	...	...	...	...	...	...	...	August
1·1	...	...	0	...	0	...	0	...	0·7	...	2	4	3	5	5	4	3	4	0	...	...	...	...	...	...	...	...	...	September
0·9	...	...	0	...	0	...	0	...	2·7	...	1	1	0	2	10	10	4	3	0	...	...	...	...	...	...	...	...	...	October
2·5	...	...	0·02	...	0·02	1	0	...	2·7	...	1	1	1	2	6	7	7	5	0	...	...	...	...	...	...	...	...	...	November
5·1	...	...	2·10	...	0·75	11	5	...	3·5	...	0	2	1	3	10	8	4	2	1	...	...	...	...	...	...	...	...	...	December
2·7	...	...	8·74	...	0·75	XII	25	...	1·9	...	29	31	14	37	103	91	28	32	1	...	...	...	...	...	...	...	...	...	*Year*

TABLE II-A.—ABSTRACT OF OBSERVATIONS RECORDED AT

STATION AND MONTH.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature, °F.				Minimum temperature, °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity, %		
		Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Mean 8 hrs. L. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
*HINAIDI (BAGHDAD) 6 hrs. (G. M. T.) (IRAQ).	109																					
January	...	30·167	...	...	60·2	...	68	27	39·6	...	32	11	46·1	...	44·0	...	·261	...	...	84	...	...
February	...	29·973	...	...	63·1	...	70	23	44·1	...	33	15, 16	51·3	...	48·8	...	·314	...	...	83	...	...
March	...	30·007	...	...	73·0	...	90	30	46·4	...	34	7	58·4	...	51·7	...	·301	...	...	62	...	...
April	...	29·875	...	...	86·5	...	106	26	57·9	...	48	2	73·5	...	61·1	...	·369	...	...	45	...	...
May	...	29·770	...	...	94·5	...	104	25, 26	65·5	...	57	1	81·7	...	64·7	...	·389	...	...	36	...	...
June	...	29·643	...	...	101·8	...	115	23	72·1	...	64	16	87·8	...	66·1	...	·350	...	...	27	...	...
July	...	29·503	...	...	110·0	...	115	17, 21	77·6	...	72	4, 5	93·4	...	70·4	...	·423	...	...	27	...	...
August	...	29·550	...	...	113·6	...	120	8	79·2	...	72	21	95·4	...	70·0	...	·389	...	...	23	...	...
September	...	29·753	...	...	100·4	...	108	1	65·8	...	57	19, 21	82·5	...	62·5	...	·308	...	...	27	...	...
October	...	29·960	...	...	95·8	...	101	6, 17	60·4	...	55	19	76·1	...	59·3	...	·273	...	...	30	...	...
November	...	30·040	...	...	82·7	...	93	2	53·6	...	41	28, 29	64·6	...	54·4	...	·284	...	...	48	...	...
December	...	30·135	...	...	59·9	...	67	1	40·2	...	27	16	46·2	...	43·9	...	·254	...	...	81	...	...
Year	...	29·865	...	...	86·8	...	120	VIII	58·5	...	27	XII	71·4	...	58·1	...	·326	...	...	48	...	...
*ABADAN 9 hrs. (Iran) (L. M. T.)	10																					
January	...	30·194	...	...	62·0	...	69	31	44·0	...	37	11	50·2	...	47·9	...	·301	...	...	82	...	...
February	...	30·000	...	...	67·6	...	75	12	49·6	...	37	16	56·6	...	53·2	...	·356	...	...	78	...	...
March	...	30·035	...	...	75·7	...	87	19, 20	54·6	...	43	7	64·5	...	56·3	...	·342	...	...	57	...	...
April	...	29·902	...	...	89·4	...	102	27	64·7	...	51	9	76·7	...	64·3	...	·428	...	...	47	...	...
May	...	29·775	...	...	99·6	...	109	25, 26	73·2	...	64	1	87·4	...	67·6	...	·415	...	...	31	...	...
June	...	29·621	...	...	104·5	...	113	22	76·3	...	69	10	91·9	...	68·3	...	·368	...	...	25	...	...
July	...	29·515	...	...	111·1	...	117	17	81·7	...	75	9	97·2	...	71·2	...	·407	...	...	23	...	...
August	...	29·577	...	...	114·7	...	120	10	82·8	...	77	18, 19, 31	97·4	...	76·4	...	·612	...	...	35	...	...
September	...	29·754	...	...	103·9	...	111	1	71·7	...	60	23, 24	88·3	...	66·0	...	·337	...	...	25	...	...
October	...	30·003	...	...	97·0	...	100	5 days	62·0	...	58	22. 23	78·6	...	62·8	...	·361	...	...	36	...	...
November	...	30·069	...	...	83·1	...	93	4	54·7	...	45	30	67·5	...	58·4	...	·362	...	...	55	...	...
December	...	30·177	...	...	62·5	...	76	6	45·5	...	33	15	51·6	...	49·2	...	·314	...	...	83	...	...
Year	...	29·885	...	...	89·3	...	120	VIII	63·4	...	33	XII	75·7	...	61·8	...	·383	...	...	48	...	...

* Pressure reduced to M. S. L.

8 HRS. (L. M. T.) AND 17 HRS. (I. S. T.) FOR EACH MONTH AND THE YEAR 1936.

Cloud amount, (tenths of sky.)			Rainfall, inches.				Number of rainy days. (0·10" or more.)		Wind velocity, miles per hour.		Wind direction—Number of winds from																	STATION AND MONTH.
											8 hrs. I. M. T.										17 hrs. I. S. T.									
Mean 8 hrs. I. M. T.	Departure from normal.	Mean 17 hrs. I. S. T.	Total of the month or year.	Departure from normal.	Heaviest fall in 24 hrs.	Date.	Total in the month or year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													*HINAIDI (BAGHDAD) 6 hrs. (G. M. T.) (IRAQ)
3·4	...	...	0·39	...	0·16	30	1	...	...	...	4	2	1	3	1	1	8	10	1	...	...	...	...	...	...	...	...	...	January
4·8	...	...	1·80	...	0·45	2	5	...	...	...	4	3	1	8	2	2	6	3	0	...	...	...	...	...	...	...	...	...	February
4·2	...	...	0·40	...	0·30	12	1	...	...	...	5	4	3	7	3	0	3	6	0	...	...	...	...	...	...	...	...	...	March
4·0	...	...	0·96	...	0·93	15	1	...	...	...	8	1	1	4	6	1	1	8	0	...	...	...	...	...	...	...	...	...	April
3·3	...	...	0·70	...	0·53	10	1	...	...	...	5	2	7	3	2	0	4	8	0	...	...	...	...	...	...	...	...	...	May
0·1	...	...	0	...	0	...	0	...	...	...	6	1	0	0	0	0	2	21	0	...	...	...	...	...	...	...	...	...	June
0·6	...	...	0	...	0	...	0	...	...	...	1	0	0	0	1	0	3	26	0	...	...	...	...	...	...	...	...	...	July
1·4	...	...	0	...	0	...	0	...	...	...	8	1	0	1	2	1	4	14	0	...	...	...	...	...	...	...	...	...	August
0	...	...	0	...	0	...	0	...	...	...	3	2	0	0	0	0	3	22	0	...	...	...	...	...	...	...	...	...	September
2·1	...	...	0	...	0	...	0	...	...	...	4	2	1	1	1	1	8	13	0	...	...	...	...	...	...	...	...	...	October
3·8	...	...	0·17	...	0·07	27	0	...	...	...	2	1	3	7	0	1	4	11	1	...	...	...	...	...	...	...	...	...	November
4·1	...	...	1·84	...	0·67	4	5	...	...	...	2	1	0	4	4	1	9	6	4	...	...	...	...	...	...	...	...		December
2·7	...	...	6·26	...	0·93	IV	1	...	...	...	52	20	17	38	22	8	55	148	6	...	...	...	...	...	...	...	...	...	*Year*
																													*ABADAN 9 hrs. (L. M.T.) (IRAN)
3·5	...	...	1·01	...	0·63	4	3	...	5·0	...	0	1	1	0	1	2	11	10	5	...	...	...	...	...	...	...	...	...	January
4·7	...	...	0·88	...	0·70	2	2	...	6·1	...	2	1	2	3	2	1	2	9	7	...	...	...	...	...	...	...	...	...	February
4·2	...	...	1·30	...	0·54	10	4	...	6·5	...	2	1	4	4	1	0	2	4	13	...	...	...	...	...	...	...	...	...	March
4·2	...	...	0·50	...	0·27	1	3	...	7·0	...	3	1	1	2	1	3	1	2	16	...	...	...	...	...	...	...	...	...	April
(a) 3·8	...	...	0·18	...	0·05	8	0	...	9·0	...	2	4	1	0	1	0	0	3	20	...	...	...	...	...	...	...	...	...	May
0	...	...	0	...	0	...	0	...	12·8	...	2	1	0	0	0	5	6	10	6	...	...	...	...	...	...	...	...	...	June
0·1	...	...	0	...	0	...	0	...	9·8	...	1	0	0	0	0	0	9	10	11	...	...	...	...	...	...	...	...	...	July
0·8	...	...	0	...	0	...	0	...	7·9	...	0	0	1	0	0	1	4	4	21	...	...	...	...	...	...	...	...	...	August
0	...	...	0	...	0	...	0	...	9·8	...	4	1	0	0	0	0	4	12	9	...	...	...	...	...	...	...	...	...	September
(b) 1·0	...	...	0	...	0	...	0	...	5·1	...	2	1	0	0	0	3	7	7	11	...	...	...	...	...	...	...	...	...	October
3·2	...	...	2·44	...	2·25	27	1	...	5·0	...	1	0	1	3	1	2	13	3	6	...	...	...	...	...	...	...	...	...	November
4·5	...	...	1·98	...	0·54	3	5	...	6·1	...	1	0	6	0	0	2	15	4	3	...	...	...	...	...	...	...	...	...	December
2·5	...	...	8·29	...	2·25	XI	18	...	7·5	...	20	11	17	12	7	19	74	78	128	...	...	...	...	...	...	...	...	...	*Year*

(a) Mean of 30 days. (b) Mean of 29 days.

TABLE III.—ABSTRACT OF OBSERVATIONS RECORDED

STATION.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature °F.				Minimum temperature °F.				Dry bulb temperature °F.		Wet bulb temperature °F.		Vapour pressure, inches.			Relative humidity, %.		
		Mean 4 hrs.	Departure from normal.	Mean 12 hrs.	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Departure from normal.	Mean 12 hrs.	Mean 4 hrs.	Departure from normal.	Mean 12 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Baluchistan																						
Ormara	15	29·793	...	29·697	85·5	...	103	VI	70·7	...	47	I, XII	76·2	82·4	70·8	72·9	·699	...	·695	75	...	61
Pasni	19	29·800	...	29·711	85·8	−0·7	107	V	68·9	+2·1	44	XII	75·4	82·1	69·3	73·0	·660	...	·709	72	...	63
Panjgur	3,177	26·683	...	26·595	87·0	+1·7	112	VI	59·0	+2·0	26	XII	67·3	83·5	55·1	59·3	·324	...	·247	46	...	21
Gwadar	39	29·771	...	29·685	84·8	...	106	V	70·5	...	48	I, XII	75·7	81·5	72·3	75·4	·759	...	·808	84	...	74
Iran																						
Charbar†	25																					
Jask	13	29·798	...	29·727	...	...	104	VIII	73·4	+0·2	53	I, III	78·1	84·3	70·9	74·6	·689	...	·750	69	...	61
Bushire	14	29·784	...	29·753	...	...	110	VIII	68·6	+0·1	41	XII	72·5	79·3	65·7	70·7	·575	...	·668	69	...	63
Ispahan	5,817	24·29*	...	24·27*	...	...	...	...	45·7	−0·3	12	XII	53·3	71·5	43·8	51·7	·214	...	·199	52	...	28
Meshed	3,104	26·66*	...	26·61*	72·5	+2·8	107	VI	41·7	−1·9	11	XII	54·8	67·5	46·2	52·8	·248	...	·257	57	...	39
Seistan	2,000	28·225	...	28·126	83·3	+1·3	112	VI	56·7	+0·7	20	I	65·1	79·7	56·4	63·3	·379	...	·416	59	...	40
Arabia																						
Bahrein	8	29·821	...	29·784	84·3	+1·1	112	VII	71·9	−0·2	51	XII	75·8	82·0	70·8	73·1	·729	...	·727	78	...	64
Muscat	15	29·783	...	29·718	85·5	−0·9	106	V	76·4	−1·7	61	I, III	79·9	81·1	70·1	71·4	·624	...	·661	59	...	60
Sharjah	18	29·794	...	29·734	88·1	...	113	VIII	68·3	...	47	I	74·6	84·2	67·4	73·3	·603	...	·696	68	...	57

* Aneroid.
† Data not available for complete year, hence no annual means.

TABLE III-A.—ABSTRACT OF OBSERVATIONS RECORDED

STATION AND MONTH.	Height of bar. cistern above mean sea level in feet.	Pressure reduced to 32°F and standard gravity, inches.			Maximum temperature. °F.				Minimum temperature °F.				Dry bulb temperature °F		Wet bulb temperature °F		Vapour pressure, inches.			Relative humidity, %.		
		Mean 4 hrs.	Departure from normal.	Mean 12 hrs.	Mean.	Departure from normal.	Highest.	Date.	Mean.	Departure from normal.	Lowest.	Date.	Mean 4 hrs.	Mean 12 hours.	Mean 4 hrs.	Mean 12 hrs.	Mean 4 hrs.	Departure from normal.	Mean 12 hrs.		Departure from normal.	Mean 12 hrs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
*Tehran																						
Iran	4,002																					
January																						
February																						
March																						
April																						
May																						
June												DATA	WERE	CONSIDERED	UNRELIABLE	AND		HAVE				
July																						
August																						
September																						
October																						
November																						
December																						
Year																						

* Aneroid barometer in use.

AT 4 AND 12 HRS. (G. M. T.) FOR THE YEAR 1936.

Cloud amount, (tenths of sky).			Rainfall, inches.				Number of rainy days. (0·10° or more)		Wind velocity, miles per hour.		Wind direction—Number of winds during the year from																				STATION.
											4 hrs.									12 hrs.											
Mean 4 hrs.	Departure from normal.	Mean 12 hrs.	Total of the year.	Departure from normal.	Heaviest fall during the year in 24 hours.	Month.	Total in the year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm	N	NE	E	SE	S	SW	W	NW	Calm	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
																													Baluchistan.
3·7	...	1·3	6·21	...	1·73	I	9	...	8·9	...	12	36	42	17	7	72	94	29	57	4	3	12	22	43	147	126	7	2	Ormara.
3·8	...	1·7	3·32	—2·82	1·37	I	5	—3·2	7·1	+1·0	35	15	58	23	8	16	83	57	71	7	3	6	29	68	148	94	6	5	Pasni.
1·9	...	2·5	5·67	+0·98	1·19	VII	14	+4·6	...	...	46	118	84	9	13	33	27	18	18	97	39	8	4	22	54	58	80	4	Panjgur.
4·6	...	2·7	4·00	...	2·65	III	5	...	4·7	...	22	43	52	15	17	28	82	22	85	3	4	15	47	100	146	30	2	19	Gwadar.
																													Iran.
																													†Charbar
2·0	...	1·8	2·86	—1·65	0·94	XI	7	—2·2	...	...	68	79	75	23	3	3	45	55	15	8	2	9	62	67	83	89	46	0	Jask.
1·5	...	1·4	9·60	—1·08	2·07	I	17	—1·2	9·1	+3·3	105	78	76	32	9	4	14	44	4	28	5	6	11	17	35	140	123	1	Bushire.
2·8	...	3·4	2·84	—1·67	0·98	II	8	—5·1	...	...	11	6	5	6	15	47	28	43	205	31	54	39	19	31	42	24	29	97	Ispahan.
3·2	...	3·6	7·87	—1·35	0·84	V	21	—2·6	1·1	—0·2	12	2	16	24	5	0	7	3	297	16	38	66	32	5	2	13	4	190	Meshed.
1·6	...	1·7	3·16	+1·14	0·65	III	9	+1·9	...	...	26	2	0	2	2	25	0	182	127	16	2	0	0	0	16	1	110	221	Seistan.
																													Arabia.
2·3	...	2·2	6·09	+3·11	1·75	XII	13	+6·0	7·8	...	55	6	6	15	4	9	46	85	140	137	27	27	19	3	2	1	126	24	Bahrein.
1·3	...	1·5	7·43	+3·26	2·60	I	8	—0·8	5·0	+1·8	18	3	84	17	9	18	49	51	117	43	3	146	46	11	3	16	70	28	Muscat.
2·6	...	2·4	9·01	...	4·27	XI	11	...	7·2	...	4	8	18	98	147	17	23	8	43	57	5	0	3	2	21	141	136	1	Sharjah.

AT 4 AND 12 HRS. (G. M. T.) FOR EACH MONTH AND THE YEAR 1936.

Cloud amount, (tenths of sky.)			Rainfall, inches.				Number of rainy days. (0·10° or more)		Wind velocity, miles per hour.		Wind direction—Number of winds from																				STATION AND MONTH.
											4 hrs.									12 hrs.											
Mean 4 hrs.	Departure from normal.	Mean 12 hrs.	Total of the month or year.	Departure from normal.	Heaviest fall in 24 hours.	Date.	Total in the month or year.	Departure from normal.	Mean.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm.	N	NE	E	SE	S	SW	W	NW	Calm.	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
THEREFORE NOT BEEN PUBLISHED.																													*Tehran Iran. January. February. March. April. May. June. July. August. September. October. November. December. *Year.*

TABLE IV.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. (L. M. T.) AT 4TH CLASS STATIONS FOR THE YEAR 1936.

STATION.	Maximum temperature °F.				Minimum temperature °F.				Mean dry bulb temperature 8 hrs. L. M. T. °F.	Mean wet bulb temperature 8 hrs. L. M. T. °F.	Vapour pressure, inches.		Relative humidity, %		Mean cloud amount 8 hrs. L. M. T.	Rainfall, inches.				Number of rainy days. (0·10 or more)		Wind.	
	Mean.	Departure from normal.	Highest during the year.	Month.	Mean.	Departure from normal.	Lowest during the year.	Month.			Mean 8 hrs. L. M. T.	Departure from normal.	Mean 8 hrs. L. M. T.	Departure from normal.		Total of the year.	Departure from normal.	Heaviest fall during the year in 24 hours.	Month.	Total in the year.	Departure from normal.	Resultant direction 8 hrs. L. M. T.	Velocity in miles per hour.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	16	16	17	18	19	20	21	22	23	24
Assam																							
Lumding	84·4	—0·1	100	IV	64·8	+0·3	38	I	70·8	67·3	·648	...	83	...	...	46·50	—4·62	6·55	V	61	—24·5	...	...
Messa (Salona)	86·3	—1·8	100	V	55·1	+2·2	40	I	70·5	68·3	·695	...	89	...	...	83·01	—0·09	3·47	V	108	—8·3	...	...
Bengal																							
Brahmanbaria	87·7	+0·8	99	IV, V	68·5	+0·9	45	I	75·6	71·9	·760	+·021	83	+3	...	77·97	—4·47	6·70	V	104	+4·9	...	...
Goalundo	87·3	+0·5	107	IV	...	...	40	I	76·0	72·7	·792	+·043	85	+5	...	63·27	—4·81	6·26	IX	87	—4·8	...	...
Pabna	88·5	—0·2	108	V	68·9	+1·1	44	I	75·4	71·6	·755	+·004	82	+1	...	65·35	+4·39	4·07	VIII	87	+3·0	...	...
Punjab East and North																							
Gurdaspur	85·9	...	112	V	61·3	...	29	I	68·9	62·4	·521	...	72	...	3·4	36·04	...	3·81	VIII	56	...	...	1·8
Kashmir																							
Jammu	83·3	—1·5	110	V, VI	66·5	+1·4	42	I, XII	70·7	61·9	·473	—·001	61	+2	3·3	59·76	+16·82	4·40	VII	68	+17·2	...	...
Kargil	57·9	—2·0	94	VII	37·6	+5·4	—11	I	41·1	...	...	...	...	...	4·2	16·94	+1·77	1·19	III	29	+7·7	...	...
N.-W.F. Province																							
Bannu	87·9	...	118	VI	63·6	...	33	I	72·6	61·1	·436	...	51	...	2·6	15·31	...	1·80	VI	27	...	...	...
Razmak	67·7	...	96	VI	...	...	16	I	58·1	47·3	·242	...	50	...	...	28·71	...	3·05	XII	70	...	...	...
Wana	77·9	...	108	VI	49·6	...	20	XII	59·8	49·9	·291	...	53	...	...	13·33	...	0·88	II	38	...	...	...
Bombay Deccan																							
Panchgani	76·7	...	95	V	63·0	...	48	I	68·9	60·2	·425	...	63	...	4·5	56·41	...	4·32	VI	107	...	...	8·5
Hyderabad, North																							
Bidar	87·7	—1·0	107	V	69·4	+1·4	50	XII	75·2	69·1	·636	+·053	73	+8	4·9	29·55	—8·20	1·66	IX	54	—0·4	...	7·6
Tibet																							
Yatung (Chumbi)	56·5	+1·2	68	VI	34·5	—1·9	12	I, II	41·0	39·3	·251	—·006	88	+2	5·1	40·08	—2·82	2·12	X	116	+10·4	...	...
(Iran) *Zahidan	78·7	...	104	V	47·1	...	16	XII	57·5	50·9	·335	...	65	...	1·3	3·13	...	0·50	II	11	...	...	...

* Records observations at 7 hrs. (L.M.T.)

TABLE V.—ABSTRACT OF OBSERVATIONS RECORDED AT 8 HRS. (L. M. T.) AT 5TH CLASS STATIONS FOR THE YEAR 1936.

DIVISION.	STATION.	Rainfall, inches.				Number of rainy days, (0·10 or more).		DIVISION.	STATION.	Rainfall, inches.				Number of rainy days, (0·10 or more)	
		Total of the year.	Departure from normal.	Heaviest fall during the year in 24 hours	Month.	Total in the year.	Departure from normal.			Total of the year.	Departure from normal.	Heaviest fall during the year in 24 hours.	Month.	Total in the year.	Departure from normal.
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
Bengal	Bankura	60·01	+3·01	6·10	VI	82	+7·7	Kashmir	Sonamarg	93·46	+22·07	11·80	II	106	+0·5
	Rampur Boalia	59·72	+3·62	5·00	VI	86	+11·4		Gurez	70·85	...	3·75	II	74	...
	Sirajganj	65·72	+1·33	4·60	V	88	+5·2	Baluchistan	Harnai	18·20	+4·86	1·70	XII	28	+4·1
	Rangpur	88·75	+6·72	8·98	X	76	—7·2		Pishin	11·18	+2·44	1·61	XII	24	+3·5
	Cooch Behar	125·35	—21·66	6·75	VI, VIII	105	+0·1	Rajputana, East	Udaipur	11·83	—11·95	1·98	IX	23	—9·7
Bihar	Muzaffarpur	45·62	—3·23	3·50	IX	67	+10·1								
	Chapra	53·95	+9·53	4·89	IX	66	+12·3	Bombay, Deccan	Khandala	166·11	...	7·01	VI	119	...
	Arrah	63·26	+17·64	4·22	IX	71	+14·7	Hyderabad, North	Parbhani	30·25	—2·72	3·11	XI	43	—1·7
	Dehri	67·66	+25·19	8·60	IX	57	+2·2								
United Provinces, West	Meerut	30·54	—1·42	4·60	VI	49	+10·5	Madras, Southeast	Palamcottah	28·90	+0·56	3·30	V	53	+11·7
Punjab, East and North	Dharampore	77·28	...	6·20	VII	86	...	Madras Deccan	Anantapur	17·40	—7·64	2·45	IX	35	—0·1
	Kallang	21·24	—1·87	1·78	III	49	—0·2	Sikkim	Gnatong	122·69	—24·79	4·05	IX	182	+0·1
	Dalhousie	98·19	+13·69	6·91	VIII	110	+22·1		Lachung	56·55	—8·38	2·10	VI	151	—10·1
	Bakloh	127·55	...	5·60	IX	107	...								

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 12-30 HRS. (I. S.T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1936.

Station, height of bar. cistern above mean sea level in feet and month.	Pressure reduced to 32° F. and standard gravity inches.			Temperature of air °F.			Wet bulb temperature °F.		Vapour pressure, inches.				Relative humidity %.				Cloud amount.	Wind direction at 12-30 hrs. (I. S. T.) Number of winds from—								
	Mean 12-30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean 12-30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 12-30 hrs. (I. S. T.)	From minimum.	Mean 12-30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 12-30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean 12-30 hrs. (I. S. T.)	N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Calcutta (21)																										
January	29·942	29·942	—·021	77·8	66·6	+1·4	52·6	62·2	·356	·358	·389	—·942	78	37	63	—7	1·5	8	3	2	1	2	2	3	10	0
February	29·877	29·872	—·030	82·4	71·6	+1·3	59·7	66·7	·493	·448	·498	+·013	90	41	68	+2	4·0	2	2	2	2	1	7	6	5	2
March	29·821	29·812	+·011	93·7	83·0	+3·7	66·3	72·1	·580	·504	·599	—·044	74	32	59	—8	1·8	2	1	0	0	4	10	5	9	0
April	29·668	29·661	—·035	97·5	87·6	+2·6	73·9	78·4	·790	·721	·798	+·001	83	41	65	—5	2·2	2	0	0	0	8	11	3	4	2
May	29·572	29·566	—·040	90·1	85·1	—0·6	76·0	82·8	·873	1·019	·980	+·097	92	73	86	+11	6·3	0	1	5	2	10	10	0	2	1
June	29·509	29·503	+·009	87·1	83·2	—1·3	76·8	81·4	·906	·996	·975	+·004	95	78	88	+5	7·8	0	1	8	5	9	6	0	1	0
July	29·480	29·485	0	87·0	84·2	+1·2	78·4	81·8	·949	1·012	·991	+·020	93	79	87	0	8·7	0	0	4	5	7	9	2	0	4
August	29·515	29·514	—·022	87·3	84·2	+1·8	78·4	81·2	·949	·980	·966	—·001	94	76	84	—4	8·3	1	0	3	7	8	10	0	2	0
September	29·652	29·656	+·019	86·6	83·3	+0·7	76·9	80·0	·905	·934	·945	—·007	93	75	86	0	6·9	0	0	2	8	8	5	5	2	0
October	29·798	29·812	+·027	85·8	80·8	+0·8	73·4	77·1	·801	·815	·840	+·024	92	67	83	+1	5·7	7	4	6	1	1	2	3	2	5
November	29·908	29·924	+·015	84·2	75·4	+3·0	65·1	70·7	·601	·576	·610	+·032	89	49	72	—2	2·3	11	2	1	1	0	2	2	11	0
December	29·928	29·939	—·034	78·1	68·3	+2·0	58·2	65·7	·469	·470	·496	+·058	91	48	73	+2	1·1	9	4	3	2	2	1	2	8	0
Year	29·723	29·724	—·008	86·5	79·4	+1·4	69·6	75·0	·723	·736	·757	+·013	89	58	76	—1	4·7	42	18	36	34	60	75	31	56	14
Agra (554)																										
January	29·453	29·427	—·012	67·9	54·7	—3·6	...	51·2	...	·157	·181	...	...	23	44	...	3·6	7	0	2	1	1	3	7	10	0
February	29·358	29·329	—·054	75·6	63·0	+0·5	...	58·2	...	·257	·276	...	...	30	47	...	3·8	4	1	1	3	7	3	4	5	1
March	29·340	29·303	+·028	85·4	72·9	—0·7	...	60·5	...	·201	·236	...	...	17	31	...	2·3	1	1	1	3	3	1	9	12	0
April	29·158	29·123	—·021	97·6	83·6	—2·2	...	64·3	...	·158	·200	...	...	10	19	...	0·7	2	2	0	0	1	7	13	5	0
May	28·973	28·941	—·093	106·4	95·3	+3·0	...	73·4	...	·380	·397	...	...	17	25	...	1·0	4	1	3	2	2	3	11	5	0
June	28·936	28·903	—·018	94·3	89·3	—4·0	...	77·1	...	·697	·709	...	...	49	53	...	4·7	3	5	4	5	1	3	6	3	0
July	28·943	28·915	+·006	89·7	84·6	—1·1	...	80·7	...	·922	·922	...	...	67	76	...	6·8	1	3	3	2	1	4	9	8	0
August	28·979	28·952	—·021	87·7	83·1	—0·7	...	79·8	...	·910	·907	...	...	70	79	...	7·4	3	1	4	2	2	3	10	4	2
September	29·114	29·089	—·007	88·1	82·0	—1·2	...	77·9	...	·819	·842	...	...	63	77	...	4·2	6	2	8	1	1	1	6	5	0
October	29·296	29·281	+·007	91·8	76·8	+0·5	...	68·4	...	·283	·448	...	...	26	45	...	0·8	3	1	3	2	5	5	6	5	1
November	29·420	29·402	+·006	81·5	67·2	+1·5	...	61·3	...	·277	·336	...	...	26	49	...	3·2	2	4	1	2	2	3	5	7	4
December	29·437	29·416	—·045	69·9	59·0	—0·7	...	57·3	...	·311	·325	...	...	42	63	...	3·2	2	0	4	1	1	1	6	12	4
Year	29·201	29·173	—·019	86·3	76·0	—0·7	...	67·5	...	·456	·482	...	...	37	51	...	3·5	38	21	34	24	27	37	92	81	12
Lahore (702)																										
January	29·319	29·294	+·003	62·9	49·5	—3·0	...	49·9	...	·190	·191	...	...	34	59	...	2·7	2	0	0	0	1	1	6	15	6
February	29·209	29·177	—·069	68·9	59·5	+2·7	...	58·0	...	·339	·340	...	...	50	69	...	5·7	1	0	1	8	2	1	3	4	9
March	29·213	29·175	+·043	76·4	66·1	—1·8	...	59·8	...	·301	·317	...	...	34	50	...	4·3 (a)	2	2	4	4	1	0	5	12	1
April	29·033	28·999	—·001	90·6	77·8	—1·8	...	66·9	...	·343	·381	...	...	26	40	...	2·8	4	2	0	0	0	1	5	11	7
May	28·826	28·784	—·086	105·5	94·0	+6·6	...	75·7	...	·487	·512	...	...	22	34	...	1·4	0	1	6	4	4	1	2	5	8
June	28·794	28·753	+·015	96·1	90·0	—1·7	...	78·3	...	·730	·748	...	...	45	54	...	3·9	1	6	1	10	3	2	2	3	2
July	28·766	28·732	—·001	93·7	87·6	—0·6	...	81·4	...	·904	·904	...	...	59	67	...	3·6	3	4	0	9	3	3	3	2	4
August	28·810	28·775	—·024	95·0	88·0	+1·6	...	80·0	...	·821	·845	...	...	52	65	...	4·0	0	6	1	9	3	3	2	5	2
September	28·971	28·935	—·002	92·8	85·0	+0·9	...	76·7	...	·703	·716	...	...	47	61	...	2·4	3	0	1	7	1	2	4	7	5
October	29·160	29·133	+·019	90·2	76·6	+1·6	...	68·5	...	·404	·473	...	...	29	52	...	0·3	1	1	2	5	3	2	7	5	5
November	29·281	29·256	+·005	77·0	62·7	+0·2	...	59·6	...	·280	·320	...	...	30	60	...	1·7	0	1	0	3	0	1	4	13	8
December	29·301	29·279	—·041	63·8	54·1	—0·2	...	54·8	...	·320	·312	...	...	53	75	...	5·7	6	5	0	2	1	1	4	9	2
Year	29·057	29·025	—·011	84·4	74·2	+0·3	...	67·5	...	·485	·505	...	...	40	57	...	3·2	23	28	16	61	22	18	47	91	60

(a) Mean of 30 days.

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 12-30 HRS. (I. S. T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1936.

Station, height of bar. cistern above mean sea level in feet and month.	Pressure reduced to 32 °F. and standard gravity, inches.			Temperature of air, °F.			Wet bulb temperature, °F.		Vapour pressure, inches.				Relative humidity, %.				Cloud amount.	Wind direction at 12-30 hrs. (I. S. T.) Number of winds from—								
	Mean 12-30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean 12-30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 12-30 hrs. (I. S. T.)	From minimum.	Mean 12-30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 12-30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean 12-30 hrs. (I. S. T.)	N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Srinagar (5,205)																										
January	24·974	24·948	—·011	36·1	32·1	+1·4	...	33·8	...	·167	·157	...	...	80	90	...	8·0	2	3	3	4	2	1	6	7	3
February	24·879	24·852	—·053	46·3	40·0	+7·0	...	40·5	...	·185	·180	...	...	62	77	...	6·6	5	3	1	3	1	1	5	6	4
March	24·941	24·910	+·038	47·6	43·2	—2·2	...	43·3	...	·235	·228	...	...	71	81	...	6·2	1	1	0	2	2	3	12	8	2
April	24·859	24·833	—·019	59·7	54·0	—1·8	...	51·5	...	·290	·285	...	...	58	68	...	4·9	4	2	0	1	0	2	6	13	2
May	24·768	24·747	—·035	76·9	68·5	+4·7	...	62·5	...	·398	·414	...	...	44	58	...	2·6 (c)	4	4	2	1	1	1	5	8	5
June	24·660	24·636	—·028	79·2	72·6	+2·0	...	64·5	...	·435	·449	...	...	46	57	...	3·5	2	5	2	2	1	2	8	3	5
July	24·606	24·583	—·015	81·3	74·7	+1·2	...	69·4	...	·577	·550	...	...	55	63	...	4·1	7	3	0	2	2	3	2	8	4
August	24·636	24·618	—·018	81·5	73·4	+2·0	...	68·7	...	·555	·552	...	...	53	65	...	3·5	5	3	1	4	1	1	10	4	2
September	24·753	24·732	—·039	78·4	69·3	+3·7	...	64·1	...	·436	·428	...	...	44	60	...	2·3	6	3	2	0	1	1	3	10	4
October	24·890	24·879	—·024	69·6	57·8	+3·1	...	54·4	...	·250	·269	...	...	35	58	...	0·7	4	7	1	2	0	2	8	3	4
November	24·997	24·980	+·016	52·3	43·4	—1·7	...	45·3	...	·219	·212	...	...	57	77	...	3·5	2	2	0	1	0	4	8	7	6
December	24·926	24·909	—·080	41·2	37·0	+0·6	...	38·4	...	·204	·191	...	...	78	89	...	7·7	3	3	1	4	4	0	7	8	1
Year	24·824	24·802	—·023	62·5	55·5	+1·6	...	53·0	...	·329	·326	...	...	57	70	...	4·5	45	39	13	26	15	21	80	85	42
Peshawar (1,164)																										
January	28·867	28·835	—·030	59·4	47·4	—3·1	...	47·2	...	·165	·168	...	...	33	53	...	3·3	3	1	3	5	4	1	1	0	13
February	28·760	28·725	—·093	62·3	55·1	+1·1	...	53·3	...	·290	·290	...	...	55	70	...	7·2	5	1	2	0	4	3	1	2	11
March	28·778	28·741	+·014	69·0	59·8	—3.6	...	55·8	...	·275	·294	...	...	41	55	...	5·2	8	4	3	5	1	1	3	4	2
April	28·620	28·588	—·022	79·8	70·3	—3·1	...	63·8	...	·382	·410	...	...	40	53	...	4·9 (a)	6	8	5	3	3	0	0	1	4
May	28·402	28·362	—·099	98·0	87·4	+4·2	...	72·4	...	·459	·490	...	...	26	36	...	2·6	7	8	9	1	0	0	0	4	2
June	28·323	28·283	—·019	97·5	90·5	+0·2	...	75·5	...	·590	·613	...	...	34	43	...	1·5	5	10	7	4	0	0	0	0	4
July	28·277	28·243	—·029	96·6	90·7	+1·1	...	79·9	...	·792	·798	...	...	46	55	...	2·6	7	10	6	1	0	0	2	1	4
August	28·345	28·312	—·030	93·3	87·3	+0·2	...	78·4	...	·774	·771	...	...	50	59	...	2·5	8	8	8	4	0	0	1	0	2
September	28·510	28·469	—·030	90·4	83·4	+1·5	...	75·7	...	·696	·675	...	...	48	59	...	1·6	9	14	7	0	0	0	0	0	0
October	28·703	28·676	—·014	84·4	73·4	+1·1	...	66·8	...	·421	·428	...	...	36	52	...	1·4	3	14	5	2	0	0	0	1	6
November	28·850	28·822	+·007	71·4	59·9	—0·5	...	56·0	...	·247	·265	...	...	33	55	...	4·1	4	2	3	6	2	0	2	4	7
December	28·866	28·839	—·043	58·8	49·6	—2·2	...	50·8	...	·272	·262	...	...	54	74	...	5·9	6	1	3	5	3	0	0	0	13
Year	28·608	28·575	—·032	80·1	71·2	—0·3	...	64·6	...	·447	·455	...	...	41	55	...	3·6	71	81	61	36	17	5	10	17	68
Drigh Road (Karachi) (77)																										
January	29·973	29·938	...	72·8	62·9	...	...	56·5	...	·244	·232	...	...	31	41	...	2·8	9	13	1	1	1	0	4	1	1
February	29·853	29·816	...	77·7	68·6	...	...	63·7	...	·408	·446	...	...	43	62	...	4·4	2	3	3	1	0	1	11	8	0
March	29·876	29·837	...	83·2	73·0	...	...	62·9	...	·319	·372	...	...	28	47	...	2·7	1	7	4	1	0	0	9	8	1
April	29·709	29·678	...	91·3	81·0	...	...	72·6	...	·559	·630	...	...	40	61	...	1·4	2	0	0	2	0	6	12	6	2
May	29·535	29·503	...	92·8	85·6	...	...	80·3	...	·874	·873	...	...	58	72	...	1·5	1	0	0	0	0	8	19	3	0
June	29·432	29·414	...	92·7	87·0	...	...	81·6	...	·932	·917	...	...	60	72	...	5·2	0	0	1	0	1	14	13	1	0
July	29·431	29·413	...	87·4	83·4	..	...	79·2	...	·898	·884	...	...	69	77	...	8·5	1	0	0	1	0	11	17	0	1
August	29·486	29·468	...	86·2	82·0	...	...	78·0	...	·855	·832	...	...	68	77	...	7·5	0	0	0	0	1	15	15	0	0
September	29·610	29·586	...	89·0	82·5	...	...	76·6	...	·753	·783	...	...	56	72	...	4·1	0	1	0	0	1	15	12	1	0
October	29·803	29·784	...	89·4	79·6	...	...	74·0	...	·641	697	...	...	48	68	...	1·3	0	1	1	0	3	12	11	3	0
November	29·906	29·883	...	85·3	74·1	...	...	65·2	...	·362	368	...	...	30	44	...	2·3	2	11	4	2	2	0	3	5	1
December	29·945	29·915	...	76·3	67·8	...	...	61·8	...	·374	·364	...	...	39	54	...	1·8	2	9	5	3	5	2	1	1	3
Year	29·713	29·686	...	85·3	77·3	...	...	71·0	...	·602	·617	...	...	47	62	...	3·6	20	45	19	11	14	84	127	37	9

(a) Mean of 30 days. (c) Mean of 28 days.

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 12-30 HRS. (I. S. T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1936.

Station, height of bar. cistern above mean sea level in feet and month.	Pressure reduced to 32°F and standard gravity, inches.			Temperature of air, °F.			Wet bulb temperature °F.		Vapour pressure, inches.				Relative humidity, %				Cloud amount.	Wind direction at 12-30 hrs. (I. S. T.) Number of winds from—								
	Mean 12-30 hrs. (I. S.T.)	Mean of daily means.	Departure from normal.	Mean 12-30 hrs. (I.S.T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 12-30 hrs. (I. S. T.)	From minimum.	Mean 12-30 hrs. (I.S.T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 12-30 hrs. (I.S.T.)	Mean of daily means.	Departure from normal.	Mean 12-30 hrs. (I.S.T.)	N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		27
Jaipur (1,431)																										
January	28·556	28·534	—·004	67·7	56·5	—2·5	...	50·8	...	·145	·170	...	...	22	40	...	2·0	4	4	5	2	2	2	3	9	0
February	28·470	28·438	—·054	75·4	63·6	+0·7	...	57·1	...	·225	·241	...	...	26	42	...	2·5	1	2	3	2	2	8	4	4	3
March	28·468	28·430	+·023	84·3	72·1	—1·3	...	60·7	...	·222	·243	...	...	19	32	...	1·4	4	0	1	0	3	8	4	8	3
April	28·315	28·281	—·020	95·6	82·8	—2·0	...	63·5	...	·152	·202	...	...	10	20	...	(b) 0·7	3	1	0	1	1	13	7	3	1
May	28·155	28·122	—·076	104·9	93·7	+3·4	...	72·1	...	·348	·379	...	...	17	26	...	0·9	1	0	0	1	0	5	14	6	4
June	28·095	28·069	—·018	94 9	88·9	—0·7	...	76·5	...	·661	·680	...	...	42	52	...	4·0	2	4	2	2	0	8	6	3	3
July	28·105	28·079	+·010	90·0	84·1	—0·2	...	77·3	...	·766	·775	...	...	55	66	...	5·6	1	1	3	0	0	8	13	3	2
August	28·140	28·114	—·019	86·7	81·0	—1·0	...	76·3	...	·757	·771	...	...	62	72	...	6·7	2	0	1	0	0	8	16	3	1
September	28·267	28·239	—·019	88·1	81·0	—0·7	...	75·2	...	·700	·723	...	...	54	69	...	5·1	1	7	2	0	1	4	8	4	3
October	28·432	28·415	+·002	91·1	77·6	+0·4	...	66·2	...	·313	·353	...	...	22	32	...	0·5	3	2	1	1	0	4	6	10	4
November	28·531	28·511	—·005	80·5	68·5	+0·5	...	61·1	...	·282	·324	...	...	28	48	...	2·8	1	4	2	1	3	3	6	2	8
December	28·532	28·510	—·054	70·4	59·7	—0·9	...	55·7	...	·260	·266	...	...	33	53	...	1·5	2	2	4	1	2	3	5	8	4
Year	28·339	28·312	—·019	85·8	75·8	—0·3	...	66·0	...	·403	·427	...	...	33	47	...	2·8	25	27	24	11	14	74	92	63	36
Bombay (37)																										
January	29·915	29·885	—·009	77·7	73·4	—0·5	59·6	(a) 66·5	·429	(a) ·503	·532	—·039	66	(a) 53	65	—2	0·9	8	2	3	1	1	1	0	15	0
February	29·891	29·854	—·015	(b) 79·1	75·1	+0·7	63·9	69·4	·533	·590	·605	+·024	76	60	70	+2	1·9	5	1	0	1	1	2	4	15	0
March	29·846	29·806	—·007	84·3	79·6	+1·4	65·7	(b) 73·2	·553	(b) ·674	·681	—·015	68	(b) 58	68	—4	0·9	9	0	1	0	0	3	5	13	0
April	29·795	29·755	+·001	85·9	82·1	+0·4	73·4	77·2	·784	·815	·805	+·004	86	66	74	0	0·7	2	0	0	0	0	2	10	16	0
May	29·692	29·659	—·054	88·2	85·0	+0·7	77·3	79·8	·899	·901	·899	+·035	87	68	75	+1	2·4	0	0	0	0	0	0	11	12	8	0
June	29·636	29·611	0	84·0	82·4	—0·6	75·2	78·9	·845	·921	·898	—·011	90	80	81	0	7·2	0	0	0	0	2	9	14	5	0
July	29·655	29·629	+·021	83·5	81·9	+1·0	76·0	79·0	·876	·930	·902	+·011	93	81	83	—2	8·8	0	0	0	0	0	8	19	4	0
August	29·691	29·665	—·002	(a) 82·8	80·9	+0·8	(a) 75·1	78·1	·850	(a) ·897	·872	+·010	93	(a) 80	83	—1	8·1	1	0	0	0	0	6	18	6	0
September	29·726	29·700	—·027	83·5	81·1	+1·1	75·3	78·9	·854	·922	·896	+·044	93	81	85	+2	5·8	3	0	0	0	2	9	8	8	0
October	29·827	29·811	+·028	86·7	81·9	+0·9	72·5	76·2	·753	·765	·811	—·018	83	61	75	—3	1·5	2	3	2	2	0	1	5	16	0
November	29·858	29·845	—·001	84·7	80·4	+1·4	71·5	74·9	·729	·735	·773	+·081	84	62	75	+5	4·3	1	8	8	4	2	1	2	3	1
December	29·888	29·874	—·015	81·0	76·3	+0·6	63·3	68·6	·518	·539	·567	—·034	72	50	63	—5	1·2	7	4	8	5	1	0	1	5	0
Year	29·785	29·758	—·006	83·5	80·0	+0·7	70·7	75·1	·719	·766	·770	+·008	83	67	75	0	3·6	38	18	22	13	9	53	98	114	1
Poona (1,834)																										
January	28·075	28·058	—·014	81·4	69·1	—0·2	...	62·0	...	·314	·343	...	...	29	51	...	1·5	1	4	8	3	1	4	2	3	5
February	28·053	28·032	—·011	81·9	70·8	—2·6	...	62·9	...	·338	·372	...	...	31	51	...	2·8	1	7	0	7	2	0	6	2	4
March	28·038	28·014	+·020	92·2	78·2	—1·6	...	64·1	...	·248	·342	...	...	17	39	...	1·1	1	9	4	4	0	1	3	2	7
April	27·970	27·951	+·016	97·1	81·7	—2·2	...	66·0	...	·251	·357	...	...	15	35	...	0·3	5	4	5	0	0	1	6	8	1
May	27·871	27·857	—·043	96·3	85·4	+1·5	...	70·5	...	·424	·541	...	...	26	50	...	2·6	2	2	2	1	0	1	10	13	0
June	27·846	27·835	+·010	82·7	76·9	—2·2	...	72·2	...	·656	·669	...	...	60	73	...	8·3	0	0	0	0	0	3	22	5	0
July	27·862	27·845	+·029	78·6	75·0	—0·4	...	72·2	...	·708	·692	...	...	73	81	...	9·2	0	0	0	0	0	2	27	2	0
August	27·881	27·867	+·006	79·5	74·3	+0·1	...	71·7	...	·679	·671	...	...	68	79	...	8·7	0	0	0	0	0	1	24	6	0
September	27·921	27·909	—·013	82·7	76·1	+1·4	...	72·7	...	·678	·689	...	...	63	78	...	8·1	0	3	2	3	0	1	11	5	5
October	28·024	28·022	+·030	88·8	76·8	+0·5	...	67·6	...	·416	·498	...	...	31	55	...	3·8	0	4	14	4	0	0	0	0	9
November	28·075	28·063	+·017	82·4	74·7	+2·6	...	68·8	...	·538	·546	...	...	49	66	...	5·4	0	1	17	10	1	0	1	0	0
December	28·083	28·073	—·015	81·1	68·9	+0·5	...	62·1	...	·327	·337	...	...	30	50	...	1·6	1	3	16	6	0	1	2	1	1
Year	27·975	27·961	+·003	85·4	75·7	—0·2	...	67·7	...	·465	·505	...	...	41	59	...	4·5	11	37	68	38	4	15	114	47	32

(a) Mean of 30 days. (b) Mean of 29 days.

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 12-30 HRS. (I. S. T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1936.

Station, height of bar. cistern above mean sea level in feet and month.	Pressure reduced to 32° F and standard gravity. inches.			Temperature of air, °F.			Wet bulb temperature, °F.		Vapour pressure, inches.				Relative humidity, %				Cloud. amount.	Wind direction at 12-30 hrs. (I.S.T.) Number of winds from—								
	Mean 12-30 hrs. (I.S.T.)	Mean of daily means.	Departure from normal.	Mean 12-30 hrs. (I.S.T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 12-30 hrs. (I.S.T.)	From minimum.	Mean 12-30 (hrs. I. S. T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 12-30 hrs. (I.S.T.)	Mean of daily means.	Departure from normal.	Mean 12-30 hrs. (I.S.T.)	N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Bangalore (3,021)																										
January	26·927	26·915	—·003	79·9	70·7	+4·1	...	63·0	...	·380	·434	...	...	37	57	...	2·9	0	7	14	6	1	1	1	1	0
February	26·896	26·881	—·020	81·0	74·8	+3·9	...	65·6	...	·450	·490	...	...	43	59	...	4·8	0	1	5	9	3	3	5	2	1
March	26·899	26·881	+·017	85·7	76·9	+1·1	...	65·3	...	·391	·443	...	...	33	49	...	4·4	0	4	13	8	4	0	2	0	0
April	26·838	26·823	+·013	89·9	81·3	+2·2	...	68·8	...	·464	·491	...	...	34	49	...	4·3	2	2	7	4	1	7	3	4	0
May	26·759	26·744	—·031	86·8	79·6	+1·8	...	70·9	...	·568	·600	...	...	46	61	...	5·5	1	2	3	1	1	3	10	9	1
June	26·785	26·776	+·021	78·3	72·5	—0·9	...	69·1	...	·602	·608	...	...	63	76	...	9·1	0	0	0	0	0	10	18	2	0
July	26·781	26·774	+·014	77·5	71·6	+0·2	...	68·6	...	·595	·606	...	...	64	78	...	9·4	0	0	0	0	0	2	27	2	0
August	26·798	26·788	+·012	76·8	71·4	+0·2	...	68·0	...	·581	·588	...	...	63	75	...	9·1	0	0	0	0	0	5	23	3	0
September	26·801	26·792	—·014	79·0	72·8	+1·5	...	70·1	...	·628	·632	...	...	64	75	...	8·4	1	1	2	2	0	4	15	4	1
October	26·868	26·868	+·029	78·2	72·3	+1·0	...	68 7	...	·591	·603	...	...	62	74	...	8·0	1	8	8	1	0	3	5	3	2
November	26·905	26·899	+·020	75·9	70·5	+1·6	...	67·1	...	·564	·588	...	...	63	79	...	7·7	0	8	17	5	0	0	0	0	0
December	26·911	26·905	—·009	77·1	69·5	+2·9	...	63·7	...	·436	·477	...	...	47	65	...	5·5	1	12	13	5	0	0	0	0	0
Year	26·847	26·837	+·004	80·5	73·7	+1·6	...	67·4	...	·521	·547	...	...	52	66	...	6·6	6	45	82	41	10	38	109	30	5
Madras (22)																										
January	29·902	29·893	—·033	83·8	76·1	+0·7	...	73·2	...	·674	·695	...	...	58	74	...	4·1	1	4	12	7	4	0	2	0	1
February	29·865	29·851	—·045	84·2	78·4	+2·0	...	75·9	...	·782	·782	...	...	67	79	...	6·0	0	2	5	13	8	1	0	0	0
March	29·855	29·839	+·004	86·2	78·7	—0·3	...	76·2	...	·773	·786	...	...	62	75	...	4·2	0	0	7	15	6	0	0	1	2
April	29·721	29·714	—·041	93·0	85·3	+1·7	...	79·1	...	·806	·856	...	...	53	70	...	5·3	0	0	1	13	10	3	2	0	1
May	29·616	29·613	—·056	93·7	87·4	—0·8	...	79·6	...	·821	·875	...	...	53	69	...	5·9	2	0	1	9	12	0	5	2	0
June	29·645	29·640	+·011	93·9	87·2	—0·6	...	76·9	...	·693	·772	...	...	44	63	...	8·6	1	0	0	3	1	1	20	3	1
July	29·634	29·631	—·017	91·9	85·4	+0·2	...	78·0	...	·770	·837	...	...	52	71	...	8·8	2	0	0	1	1	1	20	5	1
August	29·656	29·652	—·024	91·1	84·5	+0·5	...	77·5	...	·757	·827	...	...	52	71	...	8·5	2	0	0	0	3	4	11	9	2
September	29·683	29·687	—·020	90·7	84·2	+0·8	...	79·5	...	·854	·894	...	...	69	76	...	5·8	0	0	4	12	3	1	4	4	2
October	29·772	29·781	+·006	88·2	81·6	+1·0	...	76·8	...	·854	·864	...	...	65	78	...	6·3	5	0	7	11	3	0	3	1	1
November	29·859	29·854	—·002	83·2	78·3	+0·5	...	77·7	...	·874	·862	...	...	77	87	...	7·8	11	2	6	8	0	0	0	0	3
December	29·871	29·870	—·040	82·7	77·3	+1·7	...	75·1	...	·767	·754	...	...	69	80	...	7·7	14	6	5	4	1	0	0	1	0
Year	29·756	29·752	—·021	88·5	82·0	+0·6	...	77·3	...	·785	·817	...	...	59	74	...	6·6	38	14	48	96	52	11	67	26	14
Kodaikanal (7,688)																										
January	22·804	22·791	+·021	60·8	53·5	+1·0	...	50·9	...	·272	·244	—·004	...	52	64	+2	3·5	6	10	2	7	4	0	0	0	2
February	22·804	22·791	+·010	62·2	55·7	+2·0	...	55·8	...	·378	·344	+·004	...	68	81	+21	7·0	1	2	0	10	10	1	2	1	2
March	22·812	22·798	+·015	63·4	56·8	+0·5	...	53·7	...	·320	·287	+·026	...	56	69	+14	6·1	4	13	4	7	1	0	0	2	0
April	22·802	22·787	+·024	66·9	60·8	+1·6	...	56·4	...	·346	·311	—·018	...	54	66	+1	5·5	3	13	2	7	2	1	0	2	0
May	22·737	22·718	—·024	66·0	60·5	+0·4	...	57·8	...	·394	·364	—·004	...	64	77	+5	6·3	2	11	3	3	0	0	3	7	2
June	22·739	22·721	+·021	60·8	57·2	0	...	56·8	...	·419	·369	0	...	79	81	+3	8·6	1	0	0	1	1	1	4	16	5
July	22·730	22·711	+·024	59·9	56·1	+0·4	...	55·8	...	·403	·372	+·005	...	79	85	+2	8·3	1	0	0	0	0	0	8	19	3
August	22·742	22·713	+·012	60·6	56·3	+0·4	...	56·0	...	·402	·364	—·004	...	77	83	0	7·7	0	0	0	1	1	0	6	18	5
September	22·749	22·737	+·021	61·9	57·4	+1·8	...	58·1	...	·446	·399	+·026	...	81	84	+1	8·8	3	3	2	8	2	0	2	2	8
October	22·786	22·783	+·044	60·8	55·9	+1·0	...	56·7	...	·417	·391	+·025	...	78	89	+4	8·0	6	8	2	4	2	0	1	5	3
November	22·797	22·790	+·031	58·1	54·6	+1·2	...	55·6	...	·415	·373	+·034	...	85	88	+5	8·5	2	5	4	9	4	0	0	4	2
December	22·787	22·783	+·323	59·1	53·5	+0·4	...	52·8	...	·339	·306	+·042	...	69	80	+14	6·9	1	11	6	11	0	0	0	2	0
Year	22·774	22·760	+·018	61·7	56·5	+0·8	...	55·5	...	·379	·344	+·019	...	70	79	+6	7·1	30	76	25	68	27	3	26	78	33

TABLE VI.—ABSTRACT OF OBSERVATIONS RECORDED AT 12-30 HRS. (I. S. T.) AND CORRECTED DAILY MEANS AT 13 FIRST CLASS STATIONS IN INDIA DURING EACH MONTH AND THE YEAR 1936.

Station, height of bar. cistern above mean sea level in feet and month.	Pressure reduced to 32°F and standard gravity, inches.			Temperature of air, °F.			Wet bulb temperature, °F.		Vapour pressure, inches.				Relative humidity, %				Cloud amount.	Wind direction at 12—30 hrs. (I.S.T.) Number of winds from—								
	Mean 12—30 hrs. (I.S.T.)	Mean of daily means.	Departure from normal.	Mean 12—30 hrs. (I.S.T.)	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 12—30 hrs. (I. S. T.)	From minimum.	Mean 12—30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	From minimum.	Mean 12—30 hrs. (I. S. T.)	Mean of daily means.	Departure from normal.	Mean 12—30 hrs. (I. S. T.)	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Trivandrum (200)																										
January (a) .	29·658	29·655	—·005	85·6	79·3	+2·2	...	75·4	...	·740	·750	+·084	...	60	76	+2	3·8	0	0	0	1	7	2	16	0	4
February . .	29·645	29·640	—·006	87·5	81·2	+2·6	...	76·2	...	·782	·802	+·117	...	60	76	+3	3·7	0	1	0	0	3	5	20	0	0
March . . .	29·625	29·619	—·005	87·8	81·7	+1·4	...	77·0	...	·786	·816	+·041	...	59	76	0	6·4	1	2	0	0	14	3	9	2	0
April . . .	29·582	29·576	—·001	89·6	84·4	+2·5	...	80·0	...	·884	·903	+·075	...	64	77	—2	6·4	1	0	0	0	5	0	18	6	0
May . . .	29·524	29·519	—·049	85·5	81·8	+0·5	...	79·3	...	·919	·912	+·069	...	76	86	+3	8·2	2	0	0	0	0	0	20	9	0
June . . .	29·598	29·594	+·019	82·4	78·7	+0·3	...	77·6	...	·877	·867	+·057	...	80	89	+3	7·4	4	0	0	0	0	1	18	6	1
July . . .	29·586	29·584	—·004	81·6	77·4	+0·2	...	77·2	...	·872	·852	+·057	...	81	90	+3	8·5	5	0	0	0	0	0	14	12	0
August . . .	29·594	29·595	—·001	83·2	78·6	+0·8	...	77·5	...	·866	·866	+·081	...	77	89	+3	7·0	2	0	0	0	0	0	8	21	0
September . .	29·566	29·571	—·042	85·1	80·2	+2·2	...	78·3	...	·876	·871	+·090	...	73	85	+1	5·6	2	0	0	0	2	4	12	10	0
October . . .	29·609	29·619	+·001	85·3	79·8	+2·1	...	79·0	...	·906	·893	+·107	...	76	87	+2	6·2	3	0	0	0	0	2	19	6	1
November . .	29·632	29·638	+·001	83·8	79·2	+1·5	...	78·2	...	·887	·867	+·086	...	77	88	+4	7·6	0	0	0	2	3	3	15	2	5
December .	29·609	29·617	—·033	85·6	80·4	+3·0	...	77·2	...	·818	·818	+·110	...	67	81	+3	6·4	0	2	2	1	2	5	10	1	8
Year . . .	29·602	29·602	—·011	85·3	80·2	+1·6	...	77·8	...	·851	·851	+·081	...	71	83	+2	6·4	20	5	2	4	36	25	179	75	19

(a) Observations at 12-30 hrs. (I. S. T.) for 30 days.

TABLE VII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 14 STATIONS DURING EACH MONTH AND THE YEAR 1936.

Station, Latitude and Longitude.	Month.	Bright Sunshine. No. of days with duration. Nil or trace.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month or year.	Percentage of possible hours of sunshine in the month or year.	Duration in the month or year. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal Radiation Temperature (1½' above ground). Mean minimum.	Departure from normal.	Lowest in the month or year.	Date.	Mean depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
CALCUTTA— Lat. 22° 32' N. Long. 88° 20' E.	January	0	0	4	4	23	270·6	80	10·1	19	4·4	24	50·0	+1·4	42·0	19	6·0	−1·3
	February	1	1	4	10	13	227·1	69	10·3	10	0	12	55·9	+2·4	49·3	11	5·4	−1·6
	March	0	0	1	20	10	263·7	71	10·3	16	3·7	31	66·3	+2·9	54·8	14	5·6	−0·5
	April	0	1	3	12	14	248·8	65	10·3	11, 21	1·3	1	73·9	+2·5	67·7	3	3·7	−0·8
	May	3	2	7	10	9	203·8	50	11·1	9	0	26, 27, 28	76·2	+1·5	70·4	4	1·8	−1·4
	June	2	10	11	5	2	125·4	31	10·3	5	0	12, 29	76·7	0	71·8	5	1·1	−1·1
	July	7	7	11	5	1	101·8	25	9·3	1	0	6 days	78·6	+1·7	76·0	29	1·2	−0·7
	August	1	10	8	9	3	149·5	37	10·9	13	0	6	78·5	+1·9	75·6	10	1·2	−0·8
	September	2	9	4	13	2	145·8	40	9·1	5,23	0	2, 10	77·2	+1·6	74·0	17,19	1·1	−1·5
	October	1	4	9	14	3	179·4	50	10·5	20, 31	0	28	73·0	+2·8	66·6	31	2·0	−2·4
	November	0	0	1	6	23	279·4	84	10·6	1	4·6	15	63·1	+4·7	52·5	26	3·9	−2·4
	December*	0	0	1	3	23	252·0	87	10·0	30	6·0	22	54·1	+5·5	46·0	24,31	5·5	−2·1
	Year	17	44	64	111	123	2,447·3	56	11·1	...	0	...	68·6	+2·4	42·0	1	3·2	−1·4
AGRA— Lat. 27° 08' N. Long. 78° 01' E.	January	0	3	4	7	17	251·1	76	10·2	28	1·9	6	34·3	...	27·7	19	6·2	...
	February	0	0	3	11	15	245·9	75	10·7	26	3·3	17	42·9	...	34·1	5	5·7	...
	March	0	0	3	6	22	287·1	77	11·3	15	3·3	30	50·3	...	39·7	12	6·7	...
	April	0	0	0	6	24	304·1	79	11·8	4 days	6·9	5	58·9	...	45·8	16	9·2	...
	May	0	1	1	4	25	299·0	72	11·6	21	3·0	17	71·5	...	62·1	1	10·1	...
	June	0	4	6	6	14	227·1	55	12·0	19	0·7	27	(b) 75·3	...	68·3	3	5·5	...
	July	3	1	11	6	10	196·6	47	12·1	2	0	24, 25, 26	76·1	...	72·8	31	2·4	...
	August	1	12	7	4	7	156·1	39	11·8	19	0	5	(a) 75·0	...	72·1	12	2·1	...
	September	1	4	1	6	18	243·1	66	11·3	7	0	1	71·7	...	63·9	30	2·7	...
	October	0	0	0	2	29	311·1	87	10·6	2	7·1	12	55·4	...	49·2	31	5·8	...
	November	1	1	2	5	21	262·2	81	10·4	1	0	11	(b) 49·2	...	38·6	25	4·1	...
	December	1	0	4	8	18	257·4	79	10·0	20	0	4	42·0	...	27·1	23	4·9	...
	Year	7	26	42	71	220	3,040·8	68	12·1	...	0	...	58·5	...	27·1	XII	5·5	...
LAHORE— Lat. 31° 35 N. Long. 74° 20' E.	January	1	2	4	3	21	248·5	78	10·1	31	0	2	(c) 28·3	−3·4	22·8	13	7·9	−0·6
	February	2	4	4	11	8	191·1	60	10·5	28	0	6, 22	(c) 43·8	+8·0	31·6	3	4·7	−3·7
	March	0	3	3	8	17	254·7	69	11·0	20	0·3	7	(d) 40·4	+0·7	34·3	5	7·5	−0·1
	April	0	0	3	3	24	313·3	81	12·4	30	3·7	4	(d) 54·3	−1·3	42·5	10	9·1	+1·4
	May	0	0	1	7	23	325·5	76	12·5	9	5·8	29	(d) 72·5	+7·8	57·0	9	7·2	0
	June	2	4	3	6	15	224·4	53	12·6	15	0	2, 3	(b) 75·3	+1·2	69·8	6,15,29	4·3	−0·5
	July	0	1	2	8	20	364·3	70	12·8	1, 9	2·5	4	(d) 76·8	−0·2	70·2	18	2·9	−0·2
	August	1	2	0	7	21	292·4	71	12·2	13	0	10	(b) 76·1	+0·8	72·2	23	3·7	+0·4
	September	0	0	0	8	22	295·7	80	11·1	5, 18, 19	6·6	8	(e) 70·5	+3·3	58·0	30	4·8	−0·8
	October	0	0	0	1	30	314·3	89	10·5	6 days	8·5	25	54·7	+3·5	50·0	8	7·8	−0·6
	November	0	0	2	8	20	266·8	84	10·0	4 days	4·1	20	(d) 40·8	+2·9	31·9	21	7·2	−2·1
	December	1	6	8	9	7	182·5	58	9·4	5	0	16	(b) 39·4	+7·9	24·2	23	5·6	−3·3
	Year	7	22	30	79	228	3,213·5	72	12·8	...	0	...	56·6	+2·6	22·8	I	6·0	−0·9

* Observations of bright sunshine for 27 days only. (a) Mean of 30 days. (b) Mean of 29 days. (c) Mean of 28 days. (d) Mean of 27 days. (e) Mean of 26 days. (h) Mean of 23 days. (k) Mean of 20 days.

TABLE VII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 14 STATIONS DURING EACH MONTH AND THE YEAR 1936.

Station, Latitude and Longitude.	Month.	Bright sunshine. No. of days with duration. Nil or trace.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month or year.	Percentage of possible hours of sunshine in the month or year.	Duration in the month or year. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal radiation temperature (1¼' above ground). Mean minimum.	Departure from normal.	Lowest in the month or year.	Date.	Mean depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
SRINAGAR— Lat. 34° 05′ N. Long. 74° 50′ E.	January												26·3	...	18·6	20	1·8	
	February												29·7	...	23·8	1	0·9	
	March												33·3	...	24·0	19	2·9	
	April												40·4	...	31·3	10	3·4	
	May												50·8	...	39·5	8	4·3	
	June												56·3	...	48·9	6	3·5	
	July												61·1	...	53·7	13	3·5	
	August												59·7	...	52·2	8	2·6	
	September												51·9	...	38·7	30	4·3	
	October												37·2	...	32·6	30	3·8	
	November												31·2	...	21·9	22	2·0	
	December												31·5	...	21·9	30	1·1	
	Year												42·5	...	18·6	I	2·8	
PESHAWAR— Lat. 34° 01′ N. Long. 71° 35′ E.	January												(a) 27·2	...	20·4	13	7·1	...
	February												(c) 40·1	...	28·0	3	5·3	...
	March												41·9	...	29·9	12	6·7	...
	April												(b) 50·6	...	35·9	9	7·2	...
	May												62·3	...	50·7	8	10·9	...
	June												(b) 69·7	...	59·7	15	8·8	...
	July												75·8	...	68·9	21	5·5	...
	August												(d) 72·9	...	60·5	8	5·3	...
	September												(e) 68·1	...	53·7	28	5·6	...
	October												(e) 51·2	...	47·1	8	9·8	...
	November												37·0	...	28·2	23	10·0	...
	December												32·9	...	18·2	22	7·6	...
	Year												52·5	...	18·2	XII	7·5	...
DRIGH ROAD (KARACHI)— Lat. 24° 53′ N. Long. 67° 07′ E.	January	0	1	1	6	23	274·4	82	10·0	12, 19, 28	0·2	9	(b) 45·5	...	37·0	5	4·7	...
	February	0	1	2	7	19	246·9	75	10·3	9, 23	2·3	10	(d) 52·1	...	44·1	3	5·4	...
	March	0	2	3	3	23	272·5	73	11·0	23	0·1	4	(d) 59·1	...	46·4	3	3·2	...
	April	0	0	0	4	26	312·7	82	11·3	14, 16, 26	7·6	10	(b) 67·6	...	59·0		3·6	...
	May	0	0	0	2	29	319·8	77	11·7	7, 9	8·9	19	75·9	...	67·0	7	2·5	...
	June	2	8	10	5	5	151·7	37	11·2	20	0	22, 30	80·4	...	72·0	30	1·9	...
	July	4	9	14	2	2	109·5	26	9·6	25	0	4 days	(a) 78·6	...	72·8	2	1·5	...
	August	4	5	6	13	3	165·1	41	10·9	19	0	4 days	(b) 77·2	...	75·2	26	1·3	...
	September	1	4	4	6	15	219·7	59	10·7	23	0	1	(b) 74·5	...	60·4	30	2·0	...
	October	0	0	0	3	28	302·2	84	10·7	15	8·3	4	67·5	...	59·5	31	2·9	...
	November	1	0	0	2	27	286·4	87	10·4	5	0	14	(b) 57·9	...	48·0	9	3·4	...
	December	0	1	0	9	21	284·7	87	10·1	17	2·6	10	53·7	...	37·6	21	3·0	...
	Year	12	31	40	62	221	2,945·6	66	11·7	..	0	...	65·8	...	37·0	I	3·0	...

(a) Mean of 30 days. (b) Mean of 29 days. (c) Mean of 28 days. (d) Mean of 27 days. (e) Mean of 26 days.

TABLE VII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 14 STATIONS DURING EACH MONTH AND THE YEAR 1936.

Station, Latitude and Longitude.	Month.	Bright sunshine. No. of days with duration. Nil or trace.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month or year.	Percentage of possible hours of sunshine in the month or year.	Duration in the month or year. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal radiation temperature (1½′ above ground). Mean minimum	Departure from normal.	Lowest in the month or year.	Date.	Mean depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
JAIPUR— Lat. 26° 55′ N. Long. 75° 50′ E.	January	0	0	5	6	20	274·4	83	10·3	16, 27, 28	3·2	6	34·0	−2·5	26·7	26	10·3	−0·1
	February	0	3	0	6	20	260·5	80	10·9	29	1·8	27	40·2	+0·2	29·1	1	10·5	+0·1
	March	0	0	2	5	24	306·3	82	11·5	19	3·1	29	46·9	−2·2	34·9	18	10·2	+0·4
	April	1	0	0	2	27	312·4	81	11·8	15	0	21	57·5	−1·7	47·7	9	10·5	+0·7
	May	0	1	2	5	23	294·0	70	11·8	20	0·6	24	72·1	+3·3	62·5	1	8·2	+0·3
	June	0	6	1	9	14	240·8	58	11·4	13	0·1	21	...	...	...	...	...	...
	July*	1	5	6	9	9	198·1	48	11·3	14, 16, 30	0	25	...	...	...	..	...	...
	August	5	6	5	7	8	164·7	41	11·1	27	0	5 days	(g) 70·9	−1·8	64·9	28	4·4	+1·2
	September	0	3	4	7	16	246·5	67	11·2	23	0·2	2	68·5	+1·0	61·3	30	5·1	0
	October	0	0	1	2	28	310·3	90	10·9	1, 18	3·5	11	53·9	−1·1	47·1	31	10·4	+1·3
	November	0	2	4	5	19	255·5	79	10·4	1	1·6	11	48·0	+4·9	37·3	24	8·9	−1·7
	December	0	0	1	8	22	282·1	87	10·1	31	3·7	3	39·8	+3·1	24·7	28	9·4	−1·3
	Year	7	26	31	71	230	3,145·6	71	11·8	...	0	...	...	...	24·7	XII	...	...
BOMBAY— Lat. 18° 54′ N. Long. 72° 49 E.	January	0	0	0	1	30	311·3	90	10·5	29	9·0	23	57·9	−0·9	48·9	7	8·3	+0·4
	February	0	0	0	4	25	284·8	85	10·6	28, 29	6·6	4	62·0	+2·1	56·1	9	6·6	−0·8
	March	0	0	0	1	30	310·6	83	10·9	21, 22	8·5	7	(a) 64·9	−0·5	55·1	11	7·5	+1·1
	April	0	0	0	2	28	319·5	85	11·3	17	8·8	26	(b) 70·9	−0·2	66·2	1	5·4	+0·7
	May	0	1	4	3	23	282·0	70	11·1	4, 16	0·5	17	(a) 75·2	−1·2	71·9	1	5·0	+2·1
	June	7	7	4	6	6	135·4	33	11·0	19	0	7 days	74·6	−2·2	70·1	28	2·9	+1·2
	July	4	17	7	3	0	78·6	19	6·8	4	0	4 days	73·9	−1·4	72·5	31	3·5	+2·2
	August	5	10	10	6	0	102·2	26	9·0	27	0	5 days	72·2	−2·2	69·9	29	4·3	+2·7
	September	2	11	8	7	7	154·3	42	10·1	21	0	6, 12	(b) 71·6	−1·8	69·3	16	5·3	+3·2
	October	0	0	0	7	24	297·1	82	10·8	30, 31	6·4	1	(a) 66·9	−3·7	61·9	22	9·3	+4·5
	November	2	3	1	5	19	241·1	72	10·7	1, 2, 3	0	10, 12	69·1	+4·2	62·1	3	5·9	−1·5
	December	0	0	0	3	28	310·2	91	10·4	2, 3, 4	7·4	31	(a) 59·8	−0·7	48·2	22	9·1	+4·4
	Year	20	49	29	48	220	2,827·1	64	11·3	...	0	...	68·3	−0·7	48·2	XII	6·0	+1·8
POONA— Lat. 18° 32′ N. Long. 73° 51′ E.	January	0	0	0	2	29	317·7	92	10·8	29, 30	8·3	19	46·5	...	39·0	26	5·5	...
	February	0	0	0	1	28	303·4	91	11·0	19, 27, 29	9·0	4	49·5	...	43·8	9	5·8	...
	March	0	0	0	3	28	323·0	87	11·4	22	8·1	7	54·5	...	43·9	10	6·7	...
	April	0	0	0	0	30	343·4	91	11·9	4 days	10·5	3	60·1	...	53·4	2	7·1	...
	May	0	0	1	6	24	319·0	79	12·1	13, 23, 24	4·5	18	67·3	...	62·0	7	6·9	...
	June	2	10	5	3	10	165·0	42	12·2	10	0	17, 26	69·1	...	65·4	22	3·0	...
	July	1	15	9	6	0	98·7	24	7·9	7	0	24	69·3	...	67·8	15	2·2	...
	August	3	13	4	7	4	131·0	33	11·4	12	0	6, 19, 31	68·0	...	64·5	28	2·6	...
	September	0	6	13	6	5	165·8	45	10·5	15	0·3	6	67·7	...	59·7	16	2·7	...
	October	0	0	0	7	24	303·3	84	11·0	6 days	5·6	9	59·6	...	49·5	25	4·9	...
	November	0	3	8	5	14	214·0	63	10·9	2	0·1	8	(b) 60·2	...	49·0	29	3·3	...
	December	0	0	1	3	27	308·0	90	10·6	1, 2	4·3	31	46·4	...	35·0	31	5·4	...
	Year	6	47	41	49	223	2,992·3	67	12·2	...	0	...	59·9	...	35·0	XII	4·6	...

* Observations of bright sunshine for 30 days only. (a) Mean of 30 days. (b) Mean of 29 days. (g) Mean of 24 days.

TABLE VII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 14 STATIONS DURING EACH MONTH AND THE YEAR 1936.

Station, Latitude and Longitude.	Month.	Bright sunshine. No. of days with duration. Nil or trace.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month or year.	Percentage of possible hours of sunshine in the month or year.	Duration in the month or year. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal radiation temperature (1½' above ground). Mean minimum.	Departure from normal.	Lowest in the month or year.	Date.	Mean depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
BANGALORE—	January	0	0	1	16	14	264·8	75	9·7	30	4·7	13	(a) 56·5	+1·7	47·6	6	3·1	−0·5
Lat. 12° 58' N.	February	0	1	4	14	10	228·9	67	10·1	19	2·8	26	61·7	+5·1	57·0	1	3·0	−1·3
Long. 77° 35' E.	March	0	1	3	10	17	258·1	69	10·6	25	0·2	31	(b) 61·7	+1·5	52·5	7	3·9	−1·0
	April	1	0	1	4	24	272·6	73	11·0	8	0	1	(c) 67·9	+1·4	59·5	2	2·9	−0·3
	May	0	6	1	11	13	232·1	59	10·9	8	0·2	22	(b) 68·3	+0·9	63·4	28	2·0	0
	June	5	10	7	8	0	109·9	28	9·0	11	0	5 days	64·2	−1·7	61·0	27	2·2	+0·9
	July	4	7	1	7	1	124·1	31	9·1	13	0	4 days	(a) 62·6	−2·5	59·0	31	3·6	+2·4
	August	0	10	12	7	2	142·5	37	10·5	23	0·3	1	58·7	−6·1	52·6	30	7·0	+5·7
	September	0	4	6	17	3	190·5	52	9·8	19,20	0·5	11, 30	(c) 56·5	−7·9	51·0	28	10·1	+8·6
	October	0	9	5	14	3	174·4	48	9·9	17	0·1	13	(a) 61·0	−1·9	54·0	13	5·6	+3·0
	November	1	5	10	13	1	160·1	46	9·7	29	0	6	(c) 61·3	+2·2	53·4	30	2·9	−0·4
	December	0	1	8	19	3	211·7	60	9·5	4,5	0·9	17	(b) 58·1	+2·7	48·2	5	2·5	−0·9
	Year	11	54	70	140	91	2,369·7	53	11·0	...	0	...	61·5	−0·4	47·6	1	4·1	+1·4
TRIVANDRUM—	January	0	2	2	9	18	266·5	73	10·8	26	0·3	14						
Lat. 8° 29' N.	February	0	0	1	4	24	282·0	82	11·1	18	4·8	13						
Long. 76° 57' E.	March	0	3	5	11	12	233·3	62	10·9	26	0·5	5						
	April	0	0	2	17	11	256·3	69	11·2	8	4·6	25,26						
	May	6	5	7	4	9	154·8	40	10·8	11	0	6 days						
	June	2	9	7	7	5	154·3	41	11·6	19	0	1,29						
	July	3	10	10	5	3	128·1	33	11·0	8	0	1,11,26						
	August	0	6	7	10	8	208·5	54	11·2	23	1·6	6						
	September	2	4	8	10	6	179·8	49	10·5	8,10	0	9,29						
	October	0	4	10	11	6	197·1	53	10·6	5	0·5	15						
	November	2	9	8	5	6	155·3	44	10·7	12	0	2,8						
	December *	0	5	2	11	11	209·2	62	10·6	12	1·4	22						
	Year	15	57	69	104	119	2,425·2	55	11·6	...	0	...						
MADRAS—	January	0	0	1	3	27	311·8	88	11·1	25	5·0	20	63·5	−1·9	58·4	17	5·4	+2·8
Lat. 13°04'N.	February	0	1	3	11	14	251·6	74	11·0	17	2·0	24	70·7	+4·7	64·6	13	6·5	−0·1
Long. 80°15'E.	March	0	2	1	5	23	283·9	76	10·7	8	1·0	31	69·5	−0·1	61·1	8	3·4	+1·1
	April	0	1	0	0	29	306·0	82	11·3	21	1·5	1	74·9	−1·0	70·0	15	3·4	+1·3
	May	1	2	4	5	19	272·6	69	11·7	6,8	0	25	79·2	−0·5	72·0	6	2·3	+0·9
	June	3	4	8	10	5	174·7	45	12·1	5	0	24,26,27	78·1	−2·0	71·2	20	2·1	+1·1
	July	2	8	8	2	11	178·1	45	11·4	8	0	10, 21	76·5	−1·2	73·2	14	2·7	+1·6
	August	2	3	6	10	10	268·7	54	11·4	4,23	0	14,15	74·4	−2·2	71·7	21	2·8	+1·8
	September	1	2	1	9	17	249·8	69	10·7	8,14	0	29	75·2	−0·7	72·1	16	2·6	+1·7
	October	1	2	4	9	15	241·3	66	11·0	19	0	27	73·5	−0·2	67·9	15	2·7	+1·7
	November	1	4	3	11	11	219·1	63	11·0	29	0	5	71·1	+0·6	61·8	30	2·3	+0·8
	December	0	1	7	7	16	257·1	73	10·8	4,13	2·5	31	67·7	+0·4	62·0	1	4·2	+2·4
	Year	11	30	46	82	197	2,954·7	67	12·1	...	0	...	72·9	−0·3	58·4	1	3·0	+1·4

(a) Mean of 30 days. (b) Mean of 29 days. (c) Mean of 28 days. * Observations for 29 days.

ABLE VII.—ABSTRACT OF HOURS OF BRIGHT SUNSHINE AND NOCTURNAL RADIATION TEMPERATURE AT 14 STATIONS DURING EACH MONTH AND THE YEAR 1936.

Station, Latitude and Longitude.	Month.	Bright sunshine. No. of days with duration. Nil or trace.	0·1 to 3 hours.	3·1 to 6 hours.	6·1 to 9 hours.	Above 9 hours.	Total hours for the month or year.	Percentage of possible hours of sunshine in the month or year.	Duration in the month or year. Maximum. Hours.	Maximum. Date.	Minimum. Hours.	Minimum. Date.	Nocturnal radiation temperature (1½' above ground). Mean minimum.	Departure from normal.	Lowest in the month or year.	Date.	Mean depression below the minimum in shade.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
KODAIKANAL— Lat. 10° 14'N. Long. 77° 28'E.	January	0	3	6	7	15	230·9	64	10·4	3, 4	0·1	14, 21	37·3	−0·6	31·0	2	9·0	+1·7
	February	0	0	16	11	2	179·9	52	9·8	15	3·6	3	40·7	+2·8	35·9	22	8·4	+1·0
	March	0	4	5	12	10	225·8	60	11·4	3	0·2	18	43·5	+2·6	35·3	4	7·1	+0·8
	April	0	2	7	8	13	219·6	59	10·8	12	1·0	1	44·0	−1·0	37·8	13	10·4	+4·1
	May	3	4	3	12	9	200·4	51	11·4	5	0	21, 25, 28	47 4	−0·2	39·8	3	6·8	+1·3
	June	3	9	11	4	3	119·0	31	10·4	5, 14	0	22, 27, 30	48·2	−0·4	41·3	6	5·1	+1·3
	July	2	13	5	7	4	131·9	34	11·0	7	0	1, 30	49·1	+0·6	46·9	8	3·3	+0·6
	August	0	11	9	8	3	150·5	39	10·8	9, 27	0·6	2	47·1	−0·8	41·2	24	5·1	+1·9
	September	0	6	14	10	0	157·0	43	9·0	19	0·1	29	46·1	−1·3	41·8	13	6·8	+3·7
	October	0	5	9	13	4	181·1	49	10·3	26	0·2	4	46·0	−0·4	36·5	28	5·2	+1·5
	November	3	8	9	6	4	126·2	36	10·1	21	0	1, 2, 16	45·1	+0·4	32·4	29	4·9	+0·5
	December	2	7	5	12	5	173·1	48	10·0	4	0	16, 31	40·5	0	29·1	2	7 6	+0·8
	Year	13	72	99	110	72	2,095·4	47	11·4	...	0	...	44·6	+0·2	29·1	XII	6·6	+1·6
ABADAN— Lat. 30° 21 N. Long. 48° 16 E.	January (f)	0	4	5	5	11	164·9	63	9 3	25	0·1	5	...	...	...	...	...	...
	February (e)	0	1	1	3	7	95·8	70	10·3	29	1·2	23	...	...	...	...	...	...
	March	1	5	3	7	15	234·5	63	11·0	24, 25, 27	0	4	...	...	...	..	...	...
	April	0	5	3	2	20	249·6	65	11·5	19	0·4	14	...	...	...	..	...	...
	May	0	0	4	8	19	299·3	71	12·3	28, 31	4·1	9	...	...	...	...	...	...
	June	0	0	0	0	30	372·0	88	13·0	20,21,22	10·2	28	...	...	...	...	...	...
	July	0	0	0	1	30	374·4	87	12·6	5 days	6·2	7	...	...	...	...	...	...
	August	0	0	1	1	29	353·6	86	12·2	4, 5, 6	4·4	7	...	...	...	...	...	...
	September	0	0	1	0	29	319·6	86	11·4	6	5·6	1	...	...	...	...	...	...
	October	0	0	0	4	27	303·4	85	10·5	1, 2	7·6	25	...	...	...	...	...	...
	November	0	3	5	12	10	223·2	70	9·4	1, 5	1·1	27	...	...	...	...	...	...
	December	2	7	5	13	4	173·5	55	9·2	10, 11, 14	0	2, 20	...	...	...	...	...	...
	Year	3	25	28	56	231	3,163·8	75	13·0	...	0	...	...	...	...	...	...	...

(f) Observations for 25 days. (e) Observations for 12 days.

TABLE VIII.—MEAN HOURLY WIND VELOCITY IN MILES PER HOUR FOR THE YEAR 1936.

Month.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
DACCA (47 FEET).																								
January	0·1	0·1	0·1	0·1	0·1	0·1	0·1	0	0·3	0·7	0·7	0·7	1·0	1·0	0·7	0·6	0·2	0·2	0·1	0·1	0·1	0·2	0·1	0·1
February	0·9	0·7	0·8	0·7	0·7	0·6	0·6	0·7	1·2	1·3	*1·7*	*2·1*	*2·6*	*2·9*	2·5	2·1	1·1	0·5	0·5	0·7	0·7	0·7	*1·0*	*0·9*
March	*3·1*	*2·3*	*2·1*	*1·5*	*1·6*	*1·6*	*1·4*	*2·5*	*3·0*	*4·0*	*4·4*	*4·7*	*5·1*	*5·6*	*5·5*	5·6	4·5	2·9	*2·8*	*3·0*	*3·9*	*3·5*	*3·3*	*3·3*
April	*4·7*	*4·5*	*4·9*	*4·1*	*3·2*	*3·1*	*4·4*	*5·7*	*6·2*	*5·7*	*5·7*	*5·2*	*5·3*	*5·8*	*5·7*	*5·1*	*4·2*	*3·8*	*4·2*	*4·9*	*4·6*	*4·3*	*4·3*	*4·0*
*May	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
*June	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
July	*2·0*	*2·3*	*1·8*	*1·9*	*1·8*	*1·6*	*2·5*	*2·8*	*3·7*	*4·6*	*5·0*	*4·9*	*5·3*	*5·2*	*4·7*	*5·0*	*4·1*	*3·2*	*2·4*	*2·1*	*1·8*	*1·9*	*1·8*	*2·0*
August	1·7	1·6	1·2	1·0	1·5	1·3	1·8	*2·6*	*2·8*	*3·8*	*4·1*	*4·0*	*4·3*	*4·0*	*4·0*	*3·6*	*3·1*	2·7	*1·8*	*1·8*	*1·6*	*1·8*	*1·9*	*1·9*
September	*1·0*	*0·9*	*0·9*	*0·7*	*0·7*	*0·9*	*1·3*	*1·9*	*2·3*	*2·1*	*2·6*	*2·7*	*2·7*	*3·1*	*2·5*	*2·4*	*1·1*	*1·1*	*1·2*	*1·0*	*1·3*	*1·3*	*1·2*	*1·1*
October	0·3	0·4	0·5	0·6	0·5	0·3	0·7	1·1	1·3	*1·7*	*1·5*	*1·8*	*1·5*	*1·9*	*1·9*	*1·6*	*1·0*	0·5	0·4	0·6	0·7	0·8	0·6	0·5
November	*0·1*	*0·2*	*0·1*	*0*	*0*	*0*	*0·1*	*0·6*	*0·9*	*1·3*	*1·4*	*1·5*	*1·7*	*1·7*	*1·4*	*0·8*	*0*	*0*	*0*	*0·1*	*0*	*0*	*0*	*0·1*
December	0	0	0	0	0·1	0	0	0·1	0·3	*0·3*	*0·3*	*0·4*	*0·4*	*0·4*	*0·4*	*0·2*	*0*	0	0	0	0	0	0	0
Year																								
JAMSHEDPUR (50 FEET).																								
January	0·4	0·6	0·7	0·8	0·8	0·8	1·1	1·0	1·3	1·7	1·9	2·9	2·9	3·0	2·9	2·3	1·2	0·8	0·5	0·8	0·5	0·3	0·3	0·3
February	0·5	0·5	0·4	0·8	1·0	0·8	0·8	*0·5*	*1·2*	*1·7*	2·1	3·1	4·4	4·8	4·2	3·7	3·0	1·1	0·8	0·2	0·3	0·6	0·7	0·6
March	0·5	0·5	0·3	0·6	0·1	0·3	0·6	1·1	*2·2*	*3·1*	3·5	3·7	3·9	3·9	3·6	4·0	3·7	1·6	1·1	1·0	0·9	0·7	1·1	0·6
April	0·4	0·4	0·3	0·1	0·2	0·2	0·2	0·5	0·6	1·0	1·8	3·1	4·3	4·8	5·2	4·6	3·1	1·4	1·5	2·2	1·6	1·3	0·6	0·4
May	2·0	1·8	1·5	1·2	1·6	1·2	1·9	2·3	2·5	3·1	3·3	4·3	3·8	4·4	4·5	6·7	8·3	7·3	5·3	5·7	5·3	4·0	3·2	2·3
June	1·6	2·1	1·9	*2·0*	*2·2*	*2·5*	*3·2*	*4·5*	4·4	5·0	4·6	5·3	5·9	6·2	6·4	7·0	5·8	4·5	3·3	2·0	1·6	1·6	2·1	1·7
July	0·5	0·3	0·3	0·2	0·2	0·5	0·8	1·7	2·9	3·1	3·2	3·6	3·1	2·8	2·8	3·8	3·3	2·5	1·9	1·2	1·2	0·5	0·6	0·6
August	*0·9*	*1·0*	*0·9*	*1·0*	*1·1*	*1·1*	*1·4*	*2·4*	2·9	3·3	3·2	3·8	4·3	5·1	5·1	4·7	3·7	2·8	2·1	1·6	1·3	*1·1*	*1·1*	*0·9*
September	0·5	0·6	0·7	0·9	0·6	0·3	0·6	1·5	2·4	2·6	2·9	3·9	4·2	4·5	4·2	3·3	3·0	2·5	1·7	1·0	0·9	0·7	0·9	0·5
October	1·5	1·3	1·3	1·3	1·2	1·3	1·4	2·1	2·5	2·8	2·8	2·9	3·3	3·0	3·0	2·9	1·7	1·1	1·4	1·5	1·5	1·3	1·1	1·4
November	*0*	*0·1*	*0·1*	*0*	*0*	*0*	*0*	*0·2*	*0·5*	*0·5*	*0·9*	*1·4*	*1·5*	*1·7*	*1·3*	*0·8*	*0·1*	*0*	*0*	*0*	*0·1*	*0·1*	*0*	*0*
December	0·2	0·2	0·1	0·1	0·2	0·2	0·2	0·3	*1·4*	*1·6*	1·4	1·7	1·9	1·8	1·5	1·2	0·3	0·2	0·2	0·4	0·2	0·1	0·1	0·2
Year	0·7	0·8	0·7	0·7	0·8	0·8	1·0	1·5	2·1	2·5	2·6	3·3	3·6	3·8	3·7	3·7	3·1	2·1	1·7	1·5	1·3	1·0	1·0	0·8
AGRA (71 FEET).																								
January	3·2	3·5	3·5	4·0	3·7	3·3	3·5	3·2	2·6	2·8	*3·4*	*4·1*	4·5	4·8	4·8	5·1	4·7	3·1	2·5	2·7	2·9	3·0	3·0	3·2
February	2·9	3·2	2·9	2·8	2·8	3·3	4·0	3·2	2·4	3·3	3·9	4·4	5·0	4·6	4·6	5·4	5·2	4·0	3·2	3·3	3·5	3·6	3·1	3·0
March	*5·5*	*5·3*	*4·5*	*4·4*	*4·3*	*3·9*	*4·4*	*3·9*	*4·5*	*5·5*	*6·7*	*7·0*	*7·0*	*7·1*	7·5	7·9	*7·1*	*6·0*	*4·8*	*4·2*	*4·6*	*4·5*	*5·0*	*5·7*
April	3·6	3·7	3·9	4·3	3·8	3·9	3·7	2·9	4·0	4·7	6·1	7·0	7·4	7·8	8·5	8·6	8·3	6·5	4·3	3·7	3·6	3·2	3·3	3·4
May	5·7	5·2	4·9	4·5	4·3	4·6	4·4	5·5	6·6	6·7	*6·8*	6·7	7·2	8·0	7·7	7·5	7·9	6·7	6·1	4·8	4·7	4·8	5·5	5·9
June	5·1	4·6	5·2	5·0	5·1	5·3	4·8	6·2	7·2	7·6	8·1	9·0	8·6	8·4	8·5	8·5	8·2	8·1	8·0	6·9	6·6	5·9	5·5	5·1
July	3·0	3·1	3·1	3·0	2·8	2·8	2·8	3·8	4·6	4·5	5·2	5·4	5·5	5·7	5·7	5·4	4·8	4·1	3·3	2·6	2·9	2·6	2·5	3·1
August	2·7	2·6	2·7	2·6	2·7	2·2	2·3	2·6	3·1	3·6	4·1	4·0	4·2	4·7	4·2	3·7	3·0	2·5	2·5	2·5	2·2	2·5	2·5	2·9
September	2·0	1·9	2·0	2·2	2·0	2·1	2·1	2·3	3·5	3·6	*4·0*	4·3	4·6	4·6	5·1	4·8	4·2	2·8	2·7	2·3	2·1	2·1	2·1	2·1
October	2·8	2·8	2·9	2·9	2·6	2·5	2·4	1·7	2·1	2·6	3·2	3·5	3·4	2·9	3·7	3·3	3·1	2·2	2·2	2·1	2·5	2·4	2·6	2·7
November	2·6	2·4	2·5	2·5	2·5	2·5	2·5	2·2	1·5	1·8	2·3	2·7	2·7	2·9	3·4	3·4	3·0	2·0	2·3	2·4	2·2	2·1	2·3	2·7
December	2·7	2·8	2·9	2·8	2·9	2·9	2·8	2·9	2·3	2·6	3·1	3·3	3·4	3·4	3·5	3·6	3·4	2·2	2·1	2·3	2·3	2·6	2·8	2·6
Year	3·5	3·4	3·4	3·4	3·3	3·3	3·3	3·4	3·7	4·1	4·7	5·1	5·3	5·4	5·6	5·6	5·2	4·2	3·7	3·3	3·3	3·3	3·3	3·5
LAHORE (64 FEET).																								
January	1·8	2·1	2·1	2·4	2·8	2·6	2·6	2·2	1·8	1·6	2·2	4·1	4·9	5·5	5·8	5·4	4·3	2·0	0·6	0·7	0·6	0·7	1·1	1·6
February	2·8	3·0	2·9	2·9	3·1	2·7	2·7	2·7	2·8	3·2	4·0	4·9	5·3	6·3	5·6	5·0	4·8	3·7	2·6	2·2	2·3	2·6	2·9	3·1
March	3·6	4·1	3·9	3·8	4·4	4·7	4·8	4·9	5·2	6·2	6·9	7·7	8·4	8·7	8·4	8·1	7·2	5·5	3·8	2·7	3·3	3·3	3·5	3·5
April	3·1	3·4	4·0	4·5	4·5	4·5	4·7	3·7	3·6	3·9	4·8	5·1	5·1	5·6	5·8	6·0	5·7	4·6	2·9	2·1	1·9	1·9	2·4	2·9
May	2·7	2·5	2·5	3·3	3·9	3·9	3·9	5·0	6·0	6·1	5·9	5·8	5·4	4·6	4·8	4·6	3·9	3·1	1·9	1·1	2·0	2·5	3·1	3·1
June	6·2	6·0	5·3	5·1	4·3	5·0	5·8	6·4	6·8	6·8	6·7	7·0	7·0	6·6	6·0	5·6	5·4	5·2	5·0	4·9	4·5	6·2	5·3	6·0
July	3·6	3·6	3·6	3·5	3·8	4·9	5·0	5·5	5·4	6·2	6·0	5·9	5·5	4·6	4·1	4·1	3·9	3·6	2·5	1·3	1·5	2·1	3·1	3·2
August	2·8	2·5	2·7	3·0	3·2	3·3	3·5	4·5	4·9	4·9	5·2	5·1	4·6	4·3	4·6	4·8	5·6	4·9	4·0	2·7	2·5	2·7	2·8	2·7
September	2·4	2·6	2·5	2·8	2·7	2·7	2·8	3·1	4·3	4·4	4·1	3·7	3·4	3·7	3·9	4·6	3·8	2·9	2·0	1·6	1·8	2·7	2·5	2·5
October	2·8	3·1	2·8	3·2	3·7	3·5	3·6	3·4	3·5	3·8	3·7	4·2	4·3	4·0	3·4	2·8	1·5	0·2	0·5	1·6	2·1	2·7	3·0	3·0
November	2·9	3·0	3·1	3·1	3·2	3·2	2·8	3·1	3·0	2·8	2·9	3·6	4·2	4·5	4·1	3·6	2·1	0·7	0·4	0·7	1·1	1·4	2·1	2·3
December	2·8	3·2	3·3	3·4	3·5	3·1	3·1	3·1	2·9	3·0	3·3	3·9	4·4	4·6	4·6	4·0	2·5	1·1	0·6	1·1	1·2	1·5	1·7	2·2
Year	3·1	3·3	3·2	3·4	3·6	3·7	3·8	3·9	4·2	4·4	4·6	5·1	5·2	5·3	5·1	4·9	4·2	3·1	2·2	1·9	2·1	2·5	2·8	3·0

"Figures in italics are means of data which are not available for a complete month."
* Observations not available.

TABLE VIII.—MEAN HOURLY WIND VELOCITY IN MILES PER HOUR FOR THE YEAR 1936.

Month.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
PESHAWAR (46 FEET).																								
January	5·0	4·8	4·4	5·0	5·1	4·9	4·8	4·9	*4·9*	*3·9*	*2·9*	*2·5*	*2·4*	2·2	2·2	2·6	2·4	2·1	2·4	3·7	5·1	5·7	5·5	5·5
February	3·6	3·1	3·1	3·3	3·7	3·4	3·4	3·6	3·5	2·2	1·5	1·8	2·7	3·1	3·0	2·9	3·1	2·6	2·4	2·4	3·1	3·6	3·5	3·1
March	3·2	3·2	3·3	3·7	4·2	4·7	4·5	3·7	3·5	2·8	3·7	3·9	3·6	4·2	4·2	4·4	4·7	4·0	3·5	3·0	2·4	2·9	3·0	2·9
April	2·8	2·3	1·9	2·4	2·2	2·1	2·2	2·1	1·7	1·3	2·1	2·2	2·4	3·2	3·0	3·1	4·1	4·5	*4·0*	*3·1*	*3·1*	*3·3*	*3·5*	*3·0*
May	2·4	2·7	2·1	1·9	1·8	2·0	1·8	1·5	1·0	1·7	3·3	3·9	3·5	3·5	3·4	3·5	3·6	2·4	2·4	1·6	1·7	3·9	4·0	3·5
June	3·2	3·3	2·8	3·0	3·0	3·0	3·3	3·1	3·1	3·7	3·7	3·7	4·0	4·3	5·2	5·5	5·9	6·1	5·6	4·5	3·4	3·4	3·5	3·1
July	3·1	3·0	3·1	2·7	2·5	2·5	2·7	3·1	3·3	3·1	2·5	2·7	3·2	3·6	4·5	5·3	5·8	5·5	5·2	5·3	5·0	4·2	3·3	3·3
August	2·0	2·1	2·1	2·2	2·0	1·8	1·8	1·6	1·9	2·0	2·5	2·5	2·6	3·4	4·2	4·6	4·4	4·2	3·3	2·9	2·3	1·8	1·6	1·7
September	2·3	1·8	1·7	1·6	1·6	1·7	1·9	1·6	1·8	1·8	*2·5*	*2·8*	2·7	3·1	3·4	4·0	4·0	4·2	3·3	2·7	2·7	2·3	2·1	1·9
October	*2·8*	*3·1*	*3·4*	3·1	*3·3*	*3·3*	3·7	3·5	*2·6*	*1·0*	1·8	2·3	*2·5*	*2·8*	*3·4*	*3·3*	*3·6*	*3·0*	*1·7*	*1·7*	*2·6*	*3·0*	*1·9*	*2·3*
November	3·3	3·6	3·3	3·4	3·5	3·7	3·4	3·5	2·7	1·3	0·8	1·6	1·9	1·7	2·0	1·6	0·9	0·7	0·4	2·4	3·2	3·9	4·2	4·0
December	2·7	2·8	2·5	2·8	2·9	2·5	2·6	2·5	2·4	1·9	1·7	1·5	1·7	1·8	1·9	2·4	2·2	1·2	1·3	1·9	2·4	2·4	2·9	2·9
Year	3·0	3·0	2·8	2·9	3·0	3·0	3·0	2·9	2·7	2·2	2·4	2·6	2·8	3·1	3·4	3·6	3·7	3·4	3·0	2·9	3·1	3·4	3·3	3·1
DRIGH ROAD (KARACHI) (50 FEET).																								
January	5·7	5·8	5·8	5·8	5·9	6·2	6·7	6·1	5·9	6·0	8·7	9·9	9·4	9·3	9·3	9·6	10·3	10·5	9·7	7·5	6·3	5·4	4·9	5·6
February	4·6	4·6	4·4	4·6	4·6	4·0	3·4	3·3	4·1	6·0	7·9	8·8	9·4	10·2	11·4	13·2	13·6	13·5	12·8	10·6	8·4	6·9	6·0	*5·3*
March	5·7	5·8	5·7	5·5	5·7	5·2	5·6	4·9	5·3	8·5	10·2	10·6	10·9	12·1	13·6	14·5	14·9	14·5	13·7	12·1	9·4	7·3	6·0	5·5
April	5·4	5·9	5·3	5·0	5·1	4·8	5·1	4·9	6·8	8·9	10·0	11·0	12·3	14·7	16·6	17·8	18·0	17·5	16·0	14·1	12·4	9·9	8·0	5·6
May	6·4	5·8	5·5	6·2	6·2	6·4	6·4	7·6	10·2	11·7	13·0	13·9	15·0	16·1	16·9	17·2	17·0	16·5	15·2	13·5	11·5	8·9	8·2	7·6
June	11·7	11·7	11·2	10·9	10·1	9·8	9·3	11·3	12·5	13·0	14·4	15·4	16·3	17·1	18·1	18·4	19·0	18·3	16·7	14·9	13·3	12·5	12·5	12·3
July	12·1	12·1	12·0	12·0	12·1	11·4	11·3	11·9	13·4	14·9	16·5	17·2	17·5	18·2	18·7	18·7	18·6	18·0	17·1	15·5	14·1	13·2	13·0	12·7
August	12·7	12·6	12·5	12·2	12·5	12·4	11·9	12·4	14·8	15·9	16·6	17·5	18·8	19·2	19·6	19·8	19·4	18·9	17·6	16·1	14·2	13·5	13·3	12·8
September	8·4	8·4	8·3	8·0	7·8	8·3	7·7	7·4	10·1	11·5	12·2	13·4	14·4	15·5	16·3	16·8	16·8	16·6	15·1	13·0	11·0	9·7	9·2	8·4
October	3·7	3·8	3·7	3·5	3·3	3·3	3·4	2·8	4·5	7·6	8·6	10·3	11·9	13·2	14·2	15·0	14·4	14·1	11·8	9·1	7·0	4·7	4·3	3·9
November	3·9	4·4	4·6	5·0	4·9	5·3	5·2	4·6	4·6	6·8	9·1	9·8	10·1	10·0	11·8	12·2	12·2	11·7	9·4	7·2	6·0	5·2	4·4	3·3
December	3·8	4·7	5·0	5·0	4·8	4·3	3·8	4·6	4·6	5·8	7·0	6·4	6·0	6·0	7·0	8·0	9·0	9·3	8·3	6·3	4·7	3·4	3·2	3·4
Year	7·0	7·1	7·0	7·0	6·9	6·8	6·7	6·8	8·1	9·7	11·2	12·0	12·7	13·5	14·5	15·1	15·3	14·9	13·6	11·7	9·9	8·4	7·7	7·2
MADRAS (117 FEET).																								
January	9·6	9·2	9·2	9·1	8·8	9·1	8·4	7·8	8·0	8·2	9·0	9·1	9·4	10·1	10·1	10·2	10·2	10·5	10·6	10·8	11·0	10·8	10·6	10·2
February	11·7	11·4	10·6	9·6	9·4	8·9	8·9	8·4	8·8	9·6	10·2	10·7	11·9	12·1	12·6	13·1	13·3	13·6	13·7	13·7	13·2	13·2	12·7	12·3
March	9·8	8·8	8·2	7·6	6·8	7·0	6·8	6·5	6·7	7·3	8·9	10·4	11·3	11·2	11·3	11·6	11·5	11·1	10·3	10·4	10·5	10·3	10·5	10·1
April	11·5	10·6	9·8	9·3	9·4	9·4	9·4	10·5	11·5	12·3	13·0	14·2	14·8	15·0	14·2	14·0	13·7	13·2	12·7	12·7	12·5	12·2	11·8	11·7
May	11·9	11·2	11·3	11·5	11·3	10·9	10·4	11·0	11·9	12·9	13·6	14·3	14·8	14·5	14·6	14·6	14·5	13·9	13·5	12·8	12·4	12·6	12·5	12·2
June	9·7	9·4	9·6	9·1	9·3	9·3	9·6	10·3	11·5	12·4	13·3	13·2	13·2	13·5	13·6	13·3	13·0	12·7	13·1	13·6	12·9	12·9	12·1	11·5
July	9·1	9·1	8·9	8·9	9·0	9·0	8·9	9·1	10·5	12·2	12·6	11·9	11·4	11·0	10·4	9·9	9·9	9·8	9·7	9·9	10·2	10·2	9·7
August	7·0	7·3	6·8	6·7	6·8	6·3	6·0	6·3	7·8	9·7	10·6	9·6	9·3	8·9	8·7	8·8	8·7	8·6	8·3	7·9	7·8	7·8	7·1	7·6
September	7·2	6·7	6·0	5·9	5·1	5·1	5·1	5·5	5·9	5·9	5·9	6·4	7·2	7·8	8·6	9·2	9·0	8·5	8·2	8·3	8·2	9·5	8·4	7·6
October	7·8	7·0	6·9	6·9	6·6	6·8	7·1	7·4	7·5	8·3	9·2	9·8	10·1	10·5	11·3	11·3	11·3	11·2	10·9	10·6	9·9	9·5	9·3	8·5
November	9·1	9·0	8·8	8·4	8·5	7·8	7·4	7·6	7·2	7·6	9·1	9·2	9·3	9·3	10·0	10·3	10·4	10·6	10·4	10·4	10·3	10·3	10·0	9·4
December	11·3	11·3	10·8	10·6	9·9	9·8	10·3	10·2	10·2	10·9	11·5	11·9	12·6	13·3	13·6	13·4	13·5	13·6	13·2	13·0	13·0	13·3	12·6	12·1
Year	9·6	9·3	8·9	8·6	8·4	8·3	8·2	8·4	8·9	9·8	10·6	10·9	11·3	11·4	11·6	11·6	11·6	11·5	11·2	11·1	11·0	11·1	10·7	10·2
KODAIKANAL (49 FEET).																								
January	6·0	6·1	6·1	5·9	5·9	6·3	6·3	6·2	6·1	5·5	5·7	5·7	5·9	5·2	4·7	3·6	3·2	2·7	3·6	4·2	5·0	5·0	5·5	5·8
February	2·7	2·6	2·6	2·8	2·7	2·5	2·4	2·1	2·4	3·1	3·4	3·5	3·2	2·9	2·3	2·2	2·1	1·3	1·3	1·6	2·0	2·0	1·7	2·4
March	6·2	5·6	5·8	5·6	6·0	5·9	6·2	6·4	6·9	7·8	7·6	7·4	6·9	5·9	5·3	4·2	3·1	3·0	2·3	4·0	4·0	5·0	5·3	5·2
April	3·8	4·2	4·2	4·2	4·3	4·3	3·9	4·1	4·8	5·6	6·8	6·1	5·1	4·7	4·0	3·0	2·7	2·1	2·0	3·3	3·0	2·6	3·2	3·7
May	5·6	6·5	5·6	6·0	6·1	6·3	6·5	6·4	7·2	7·0	7·3	6·9	6·9	5·5	5·3	4·7	4·6	5·0	5·1	6·1	6·3	5·6	5·1	5·8
June	8·4	8·3	8·2	8·8	8·6	8·6	8·8	7·6	6·9	6·8	7·7	7·9	6·6	6·2	6·5	6·3	6·1	6·1	6·0	7·6	8·3	7·9	8·0	8·3
July	11·6	11·9	11·4	11·4	11·4	11·6	11·6	10·0	10·7	10·0	8·8	8·8	8·3	7·9	7·6	7·9	9·0	9·9	10·6	11·0	12·1	11·3	11·6	12·0
August	7·4	8·0	7·9	7·9	8·5	8·4	7·7	7·5	7·2	6·3	5·9	5·5	4·6	3·7	4·1	3·9	4·6	4·7	4·7	5·7	6·6	6·5	7·0	6·7
September	3·2	3·4	4·1	3·6	3·7	3·9	4·4	4·1	4·1	3·9	4·1	4·1	3·8	3·6	3·2	3·4	3·4	3·0	2·9	3·2	3·0	3·7	3·7	3·2
October	4·4	4·9	4·8	4·6	4·4	4·9	4·8	5·2	5·6	5·4	5·9	5·1	5·2	4·3	4·0	3·7	3·2	2·8	4·0	3·3	3·5	3·8	4·8	4·4
November	4·2	4·3	4·7	4·1	4·2	4·5	4·1	4·5	5·0	5·0	5·0	4·8	4·1	3·9	4·0	3·5	3·8	3·1	3·3	3·7	4·4	4·3	4·7	4·7
December	5·6	5·9	6·1	5·6	5·8	5·1	6·3	6·6	6·6	6·9	6·7	6·3	6·9	6·1	5·8	4·9	4·5	3·8	4·5	5·6	5·6	5·8	5·8	5·9
Year	5·7	6·0	5·9	5·9	6·0	6·0	6·1	5·9	6·1	6·1	6·2	6·0	5·6	5·0	4·7	4·3	4·2	4·0	4·2	4·9	5·3	5·3	5·5	5·7

"Figures in italics are means of data which are not available for a complete month."

TABLE IX.—NUMBER OF DAYS IN EACH MONTH AND THE YEAR ON WHICH THE NILGIRIS WERE VISIBLE FROM KODAIKANAL IN 1936.

Month.	Very clear.	Visible.	Just visible.	Top only visible.	Total.
1	2	3	4	5	6
January	7	11	1	9	28
February	..	4	4	..	8
March	7	3	5	..	15
April	1	2	1	..	4
May	3	..	..	2	5
June	6	4	..	10	20
July	1	1	..	4	6
August	..	1	1	2	4
September	3	2	..	3	8
October	..	1	..	5	6
November	..	6	..	4	10
December	6	4	..	4	14
Year	34	39	12	43	128

TABLE X.—AVERAGE OVER THE 16 CHIEF POLITICAL DIVISIONS OF THE

DIVISION.	JANUARY.			FEBRUARY.			MARCH			APRIL.			MAY.			JUNE.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	"	"		"	"		"	"		"	"		"	"		"	"	
Burma .	0·03	—0·08	—73	0·60	+0·38	+173	0·26	—0·22	—46	2·53	+1·20	+90	9·99	+1·30	+15	18·06	+2·28	+14
Assam . .	0·54	—0·13	—19	2·61	+1·10	+73	2·85	—1·13	—28	8·95	—0·11	—1	15·39	+3·40	+28	16·88	—1·25	—7
Bengal . .	0·41	+0·06	+17	0·61	—0·34	—36	1·42	—0·25	—15	1·77	—1·49	—46	12·31	+4·73	+62	11·78	—2·61	—18
Orissa . .	0·86	+0·46	+115	1·91	+0·87	+84	0·49	—0·53	—52	0·23	—1·23	—84	7·98	+4·78	+149	19·55	+10·24	+110
Bihar . . .	0·40	—0·12	—23	0·44	—0·40	—48	0·33	—0·28	—46	0·22	—0·40	—65	3·22	+1·02	+46	8·26	+0·19	+2
United Provinces.	0·17	—0·59	—78	0·93	+0·24	+35	0·35	—0·12	—26	0·15	—0·10	—40	0·97	+0·29	+43	10·26	+5·87	+134
Punjab . .	0·21	—0·82	—80	1·75	+0·86	+97	1·06	+0·22	+26	0·39	—0·15	—28	0·14	—0·43	—75	4·37	+2·63	+151
North-West Frontier Province.	0·60	—0·69	—53	3·65	+2·44	+202	2·44	+0·54	+28	1·17	—0·38	—25	0·29	—0·50	—63	1·53	+0·65	+74
Sind . . .	0·02	—0·10	—83	0·37	+0·19	+106	0·15	—0·04	—21	0	—0·10	—100	0	—0·25	—100	0·83	+0·49	+144
Rajputana . .	0·07	—0·23	—77	0·24	—0·03	—11	0·43	+0·23	+115	0·02	—0·14	—87	0·14	—0·36	—72	4·72	+2·48	+111
Bombay .	0 03	—0·09	—75	0·13	+0·05	+63	0·14	+0·03	+27	0·15	—0·23	—61	0·89	—0·15	—14	12·24	+3·48	+40
Central India .	0·16	—0·30	—65	0·35	—0·03	—8	0·43	+0·21	+95	0·17	+0·01	+6	0·35	—0·13	—27	7·37	+2·49	+51
Central Provinces.	0·76	+0·25	+49	1·82	+1·03	+130	0·88	+0·35	+66	0·26	—0·20	—43	1·06	+0·40	+61	13·33	+5·46	+69
Hyderabad .	0 02	—0·19	—90	2·15	+1·87	+668	0·39	—0·04	—9	0·49	—0·19	—28	2·06	+1·17	+131	4·95	—0·01	0
Mysore . .	0	—0·12	—100	0·31	+0·18	+138	1·32	+1·01	+326	0·64	—0·82	—56	3·89	+0·31	+9	6·33	+1·53	+32
Madras . .	0·11	—0·65	—86	2·11	+1·68	+391	2·01	+1·31	+187	1·06	—0·70	—40	6·40	+2·82	+79	7·74	—0·26	—3
Mean of India .	0·23	—0·23	—50	1·13	+0·59	+109	0·81	+0·10	+14	1·09	—0·13	—11	4·20	+1·05	+33	10·21	+2·28	+29

MONTHLY AND ANNUAL RAINFALL, WITH ITS DEPARTURE FROM NORMAL IN 1936.

JULY.			AUGUST.			SEPTEMBER.			OCTOBER.			NOVEMBER.			DECEMBER.			YEAR.		
Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
"	"		"	"		"	"		"	"		"	"		"	"		"	"	
17·28	+0·18	+1	15·87	—1·02	—6	10·56	—1·54	—13	7·01	+0·54	+8	0·69	—1·50	—68	0·07	—0·41	—85	82·95	+1·11	+1
20·35	+1·68	+9	15·13	—1·69	—10	10·74	—1·77	—14	5·46	—0·23	—4	1·04	+0·11	+12	0·84	+0·49	+140	100·78	+0·47	0
17·63	+2·68	+18	12·82	—1·32	—9	11·99	+1·14	+11	4·64	—0·41	—8	0·26	—0·53	—67	0·19	+0·03	+19	75·83	+1·69	+2
13·41	+0·83	+7	13·41	+0·67	+5	9·45	+0·54	+6	7·21	+2·31	+47	0·59	—0·94	—61	0·16	—0·13	—45	75·25	+17·87	+31
16·81	+3·86	+31	11·13	—1·74	—14	15·81	+7·27	+85	4·13	+1·60	+63	0·18	—0·14	—44	0·40	+0·29	+264	60·83	+11·15	+22
18·61	+7·11	+62	12·84	+1·64	+15	9·09	+2·70	+42	0·49	—0·85	—63	0·24	+0·07	+41	1·10	+0·61	+279	55·20	+17·07	+45
5·94	+0·61	+11	4·92	—0·54	—10	2·20	—0·59	—21	0·12	—0·19	—61	0·05	—0·07	—58	0·94	+0·56	+147	22·08	+2·08	+10
2·15	—0·49	—19	2·51	—0·73	—23	1·10	—0·11	—9	0·09	—0·25	—74	0·68	+0·39	+134	1·17	+0·62	+113	17·38	+1·49	+9
2·91	+1·24	+74	0·02	—2·17	—99	0·31	—0·66	—68	0	—0·15	—100	0·17	+0·15	+750	0·30	+0·22	+275	5·08	—1·18	—19
3·92	—2·84	—42	5·63	—1·20	—18	3·56	+0·27	+8	0	—0·46	—100	0·62	+0·49	+377	0·14	—0·03	—18	19·49	—1·82	—9
7·83	—7·06	—47	5·43	—4·12	—43	7·24	+0·75	+12	1·02	—1·49	—59	3·59	+2·86	+392	0·02	—0·16	—89	38·71	—6·13	—14
8·57	—2·50	—23	9·87	—1·70	—15	6·89	+1·33	+24	0·13	—0·83	—86	3·05	+2·63	+626	0·18	—0·01	—5	37·52	+1·17	+3
12·54	—0·61	—5	13·68	+1·38	+11	8·27	+1·12	+16	2·06	+0·11	+6	3·10	+2·60	+520	0·14	—0·18	—56	57·90	+11·71	+25
5·59	—1·61	—22	4·90	—1·76	—26	5·48	—2·17	—28	2·83	+0·25	+10	3·35	+2·46	+276	0·45	+0·18	+67	32·66	—0·04	0
5·43	—1·73	—24	3·63	—1·60	—31	7·31	+2·12	+41	3·40	—1·90	—36	2·90	+0·47	+19	0·16	—0·29	—64	35·32	—0·84	—2
8·73	+0·51	+6	5.53	—0·87	—14	6·06	+0·17	+3	5·67	—2·15	—27	8·09	+1·92	+31	1·61	—0·55	—25	55·12	+3·24	+6
11·13	—0·11	—1	9·36	—1·02	—10	7·47	+0·41	+6	2·97	—0·32	—10	1·98	+0·69	+53	0·48	+0·02	+4	51·06	+3·83	+7

TABLE XI.—AVERAGE OVER THE 33 SUB-DIVISIONS OF THE MONTHLY AND ANNUAL

SUB-DIVISION.	JANUARY.					FEBRUARY.					MARCH.				
	RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1. Bay Islands	1·0	—0·3	0·33	—0·87	—73	0·5	—0·2	0·30	—0·19	—39	3·0	+2·3	3·07	+2·62	+582
2. Lower Burma	0·1	—0·2	0·02	—0·09	—82	0·7	+0·4	0·47	+0·24	+104	0·6	—0·1	0·39	—0·15	—28
3. Upper Burma	0·1	—0·2	0·04	—0·07	—64	1·7	+1·1	0·70	+0·48	+218	0·4	—0·6	0·15	—0·27	—64
4. Assam	1·3	—0·3	0·54	—0·13	—19	6·3	+2·9	2·61	+1·10	+73	5·2	—1·1	2·85	—1·13	—28
5. Pengal	1·0	+0·2	0·41	+0·06	+17	1·3	—0·3	0·61	—0·34	—36	2·2	—0·3	1·42	—0·25	—15
6. Orissa	1·7	+1·0	0·86	+0·46	+115	4·1	+2·4	1·91	+0·87	+84	0·9	—0·9	0·49	—0·53	—52
7. Chota Nagpur	1·5	+0·1	0·62	—0·12	—16	2·4	+0·3	0·86	—0·30	—26	1·7	—0·2	0·59	—0·33	—36
8. Bihar	0·8	—0·1	0·31	—0·11	—26	0·8	—0·7	0·25	—0·45	—64	0·8	—0·3	0·22	—0·26	—54
9. United Provinces, East	0·7	—0·7	0·21	—0·42	—67	2·8	+1·5	1·15	+0·59	+105	0·6	—0·2	0·15	—0·18	—55
10. Do. do. West	0·4	—1·5	0·14	—0·73	—84	2·3	+0·7	0·74	—0·06	—7	1·6	+0·3	0·53	—0·06	—10
11. Punjab, East and North	0·5	—1·7	0·17	—1·04	—86	4·0	+2·0	1·93	+0·92	+91	2·4	+0·5	1·01	+0·11	+12
12. Do. Southwest	0·7	—0·5	0·33	—0·18	—35	2·7	+1·4	1·21	+0·68	+128	2·2	+0·5	1·23	+0·58	+89
13. Kashmir	3·3	—1·8	1·87	—1·74	—48	6·2	+1·2	5·99	+2·48	+71	7·6	+1·2	7·54	+2·99	+66
14. North-West Frontier Province	1·2	—1·2	0·60	—0·69	—53	5·9	+3·3	3·65	+2·44	+202	3·8	+0·1	2·44	+0·54	+28
15. Baluchistan	2·0	—0·6	0·85	—0·33	—28	4·1	+1·2	2·20	+1·03	+88	1·9	—0·9	0·75	—0·45	—37
16. Sind	0·1	—0·2	0·02	—0·10	—83	1·1	+0·6	0·37	+0·19	+106	0·5	0	0·15	—0·04	—21
17. Rajputana, West	0	—0·5	0·01	—0·17	—94	0·7	+0·2	0·23	0	0	0·3	—0·2	0·07	—0·11	—61
18. Do. East	0·4	—0·5	0·10	—0·26	—72	0·9	+0·2	0·25	—0·04	—14	1·6	+1·0	0·63	+0·41	+186
19. Gujarat	0	—0·2	0	—0·09	—100	0·3	+0·1	0 07	—0·03	—30	0·1	—0·1	0·03	—0·04	—57
20. Central India, West	0·4	—0·4	0·09	—0·30	—77	0·6	—0·1	0·19	—0·11	—37	1·3	+0·9	0·47	+0·30	+176
21. Do. do. East	1·5	0	0·41	—0·29	—41	1·5	+0·1	0·93	+0·25	+37	1·2	+0·3	0·28	—0·12	—30
22. Berar	1·4	+0·7	0·67	+0·28	+72	3·0	+2·3	1·97	+1·61	+447	1·5	+0·8	0·79	+0·46	+139
23. Central Provinces, West	0·8	—0·3	0·25	—0·40	—62	3·4	+2·6	1·42	+0·72	+103	2·5	+1·3	1·13	+0·56	+98
24. Do. do. East	1·6	+0·7	1·20	+0·73	+155	4·5	+2·7	2·04	+0·93	+84	1·9	+0·6	0·74	+0·12	+19
25. Konkan	0	—0·2	0	—0·10	—100	0	—0·1	0	—0·05	100	0·2	+0·1	0·14	+0·08	+133
26. Bombay Deccan	0·1	—0·2	0·06	—0·09	—60	0·5	+0·3	0·21	+0·12	+133	0·5	+0·2	0·22	+0·08	+57
27. Hyderabad, North	0·2	—0·2	0·03	—0·19	—86	3·5	+2·9	2·09	+1·79	+597	1·1	+0·3	0·53	+0·10	+23
28. Do. South	0	—0·3	0	—0·20	—100	3·4	+2·9	2·22	+1·96	+754	0·3	—0·4	0·22	—0·21	—49
29. Mysore	0	—0·2	0	—0·12	—100	0·7	+0·5	0·31	+0·18	+138	2·3	+1·7	1·32	+1·01	+326
30. Malabar	0·2	—1·0	0·10	—0·78	—89	1·0	+0·1	0·62	+0·08	+15	5·4	+3·0	3·90	+2·46	+171
31. Madras, Southeast	0·3	—1·0	0·06	—0·93	—94	2·9	+2·2	2·09	+1·62	+345	3·0	+2·2	2·08	+1·57	+308
32. Do. Deccan	0	—0·4	0·01	—0·20	—95	1·5	+1·3	0·78	+0·64	+457	0·9	+0·5	0·50	+0·29	+138
33. Do. Coast, North	0·6	+0·1	0·27	—0·14	—34	6·1	+5·6	4·85	+4·51	+1326	0·4	—0·2	0·16	—0·26	—62

RAINFALL AND NUMBER OF RAINY DAYS WITH THEIR DEPARTURES FROM NORMAL IN 1936.

APRIL.					MAY.					JUNE.					JULY.				
RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
5·0	+2·5	4·52	+2·97	+192	8·5	−4·8	5·73	−6·58	−53	22·0	+3·5	19·17	+1·95	+11	20·0	+1·5	18·47	+4·09	+28
3·9	+2·0	3·13	+1·73	+124	10·9	−1·7	13·35	+1·34	+11	23·3	+1·2	28·40	+3·11	+12	25·5	+1·4	28·74	−0·40	−1
3·3	+0·8	2·04	+0·77	+61	9·5	+1·5	7·20	+1·27	+21	13·0	+2·1	9·48	+1·60	+20	10·1	−0·2	7·76	+0·66	+9
2·8	−2·2	8·95	−0·11	−1	14·0	0	15·39	+3·40	+28	17·0	−0·8	16·88	−1·25	−7	20·7	+1·6	20·35	+1·68	+9
2·8	−1·7	1·77	−1·49	−46	11·5	+2·8	12·31	+4·73	+62	15·2	+0·9	11·78	−2·61	−18	18·7	+2·1	17·63	+2·68	+18
0·5	−2·2	0·23	−1·23	−84	9·4	+4·5	7·98	+4·78	+149	15·4	+4·2	19·55	+10·24	+110	17·4	+2·3	13·41	+0·83	+7
0·5	−1·0	0·21	−0·45	−68	5·4	+1·7	3·32	+1·28	+63	14·7	+4·1	11·30	+2·47	+28	19·1	+4·0	14·63	+1·78	+14
0·5	−0·7	0·23	−0·37	−62	4·8	+1·6	3·18	+0·91	+40	11·3	+2·7	6·38	−0·85	−11	16·8	+3·4	17·06	+4·80	+39
0·5	0	0·18	−0·01	−5	1·6	+0·3	0·85	+0·17	+25	10·3	+4·8	7·38	+2·58	+54	17·1	+4·5	22·18	+10·59	+91
0·3	−0·5	0·12	−0·18	−60	1·8	+0·3	1·08	+0·41	+61	10·9	+6·1	12·74	+8·70	+215	13·5	+2·1	15·55	+4·12	+36
1·1	−0·1	0·40	−0·15	−27	0·6	−0·8	0·19	−0·43	−69	6·2	+3·3	4·78	+2·74	+134	7·8	+1·0	7·01	+0·73	+12
1·1	−0·2	0·36	−0·16	−31	0	−1·0	0	−0·43	−100	3·5	+2·1	3·14	+2·32	+283	3·0	−0·1	2·75	+0·25	+10
4·1	−1·7	2·20	−1·37	−38	2·2	−1·6	0·86	−1·11	−56	6·3	+2·1	3·94	+1·46	+59	8·1	+0·4	7·35	+0·73	+10
2·3	−0·9	1·17	−0·38	−25	0·8	−0·9	0·29	−0·50	−63	2·5	+0·8	1·53	+0·65	+74	3·4	−0·2	2·15	−0·49	−19
0·3	−1·4	0·12	−0·56	−82	0·4	−0·3	0·19	−0·10	−34	0·7	+0·1	0·34	+0·04	+13	1·1	−0·6	0·54	−0·45	−45
0	−0·3	0	−0·10	−100	0	−0·5	0	−0·25	−100	0·8	+0·2	0·83	+0·49	+144	2·5	+0·8	2·31	+1·24	+74
0	−0·4	0·02	−0·14	−87	0·1	−0·8	0·02	−0·41	−95	3·1	+1·1	2·44	+1·11	+83	2·5	−2·1	1·45	−2·12	−59
0	−0·4	0·02	−0·14	−87	0·7	−0·6	0·20	−0·34	−63	6·4	+2·5	5·99	+3·25	+119	7·4	−2·4	5·28	−3·23	−38
0	−0·1	0	−0·03	−100	0	−0·6	0·02	−0·31	−94	8·0	+2·4	7·30	+2·62	+51	9·2	−3·3	5·11	−7·56	−60
0·2	−0·1	0·11	−0·04	−27	0·8	−0·3	0·30	−0·18	−37	9·2	+3·3	7·20	+2·36	+49	8·6	−3·1	6·55	−3·98	−38
0·8	+0·3	0·42	+0·19	+83	1·2	+0·1	0·50	+0·05	+11	10·3	+4·6	7·96	+2·94	+59	16·8	+3·0	15·32	+2·44	+19
0·4	−0·3	0·11	−0·13	−54	3·0	+1·8	1·30	+0·75	+136	12·3	+4·3	12·89	+6·82	+112	7·3	−4·9	4·17	−5·01	−55
0·8	+0·1	0·41	+0·11	+37	1·7	+0·3	0·65	+0·06	+10	12·9	+4·3	10·30	+2·99	+41	14·9	+0·1	12·99	−0·30	−2
0·6	−0·9	0·23	−0·49	−68	3·3	+1·6	1·24	+0·46	+59	15·2	+5·2	15·94	+6·61	+71	18·7	+2·5	17·03	+1·71	+11
0·3	−0·4	0·20	−0·18	−47	2·4	+0·5	1·24	−0·34	−22	24·0	+5·6	38·14	+12·80	+51	28·2	+2·3	25·58	−13·30	−34
0·5	−0·8	0·23	−0·38	−62	2·2	−0·2	1·34	+0·02	+2	7·4	−0·4	5·87	+0·68	+13	7·3	−3·8	3·26	−4·45	−58
0·8	−0·5	0·47	−0·06	−11	3·6	+2·0	1·66	+0·89	+116	10·0	+2·3	5·77	+0·29	+5	10·3	−1·3	6·29	−1·62	−20
1·0	−0·8	0·52	−0·33	−39	4·8	+2·6	2·51	+1·48	+144	7·9	+1·0	4·04	−0·34	−8	9·3	−0·9	4·81	−1·60	−25
1·2	−1·5	0·64	−0·82	−56	7·1	+1·5	3·89	+0·31	+9	8·9	+1·7	6·33	+1·53	+32	9·7	0	5·43	−1·73	−24
2·0	−3·6	1·09	−2·68	−71	12·7	+3·8	16·66	+9·39	+129	19·8	−0·5	21·45	−2·23	−9	21·0	+1·1	21·59	−0·60	−3
1·4	−0·6	1·32	+0·02	+2	3·5	−0·3	2·15	−0·39	−15	3·3	+0·4	1·67	+0·11	+7	4·9	+1·1	2·90	+0·71	+32
0·7	−0·5	0·45	−0·17	−27	4·9	+1·9	2·47	+0·82	+50	5·5	+1·1	3·14	+0·77	+32	4·5	−1·8	1·97	−1·27	−39
1·0	−0·2	0·79	+0·05	+7	5·1	+2·1	4·25	+2·22	+109	8·4	+2·4	5·28	+1·01	+24	11·4	+2·5	8·00	+2·49	+45

TABLE XI.—AVERAGE OVER THE 33 SUB-DIVISIONS OF THE MONTHLY AND ANNUAL

SUB-DIVISION.	AUGUST.					SEPTEMBER.					OCTOBER.				
	RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
			"	"				"	"				"	"	
1. Bay Islands . . .	21·5	+3·8	20·35	+7·27	+56	13·0	−4·8	13·59	−1·12	−8	8·0	−4·9	5·19	−3·59	−41
2. Lower Burma . . .	23·0	−0·8	27·70	+0·56	+2	16·0	−2·5	15·61	−1·58	−9	7·7	−2·6	7·46	−0·20	−3
3. Upper Burma . . .	9·3	−2·4	5·93	−2·35	−28	8·3	−2·4	6·37	−1·51	−19	7·2	−0·2	6·64	+1·16	+21
4. Assam	16·9	−1·0	15·13	−1·69	−10	11·6	−2·2	10·74	−1·77	−14	6·4	−0·3	5·46	−0·23	−4
5. Bengal	15·8	−0·8	12·82	−1·32	−9	13·0	+0·9	11·99	+1·14	+11	5·3	0	4·64	−0·41	−8
6. Orissa	17·9	+2·3	13·41	+0·67	+5	13·0	+1·1	9·45	+0·54	+6	6·5	+0·8	7·21	+2·31	+47
7. Chota Nagpur . . .	18·0	+1·5	13·78	−0·13	−1	14·6	+4·6	13·77	+5·75	+72	5·9	+2·1	5·35	+2·44	+84
8. Bihar	12·7	−0·7	9·96	−2·47	−20	13·2	+4·3	16·72	+7·95	+91	3·7	+1·0	3·52	+1·18	+50
9. United Provinces, East .	14·5	+1·7	13·78	+2·43	+21	10·0	+2·6	9·71	+2·81	+41	1·4	−0·3	0·92	−0·96	−51
10. Do. do. West .	12·3	+0·9	12·03	+0·96	+9	8·8	+2·8	8·56	+2·61	+44	0·3	−0·6	0·12	−0·75	−86
11. Punjab, East and North .	6·2	−0·6	5·96	−0·47	−7	3·9	+0·6	2·51	−0·84	−25	0·4	−0·2	0·16	−0·22	−58
12. Do. Southwest . .	2·7	−0·4	1·85	−0·73	−28	1·8	+0·4	1·31	+0·18	+16	0	−0·2	0	−0·11	−100
13. Kashmir	5·6	−2·8	5·57	−2·13	−28	3·4	−0·6	2·58	−1·90	−28	1·0	−0·7	0·73	−0·34	−32
14. North-West Frontier Province	3·7	−0·4	2·51	−0·73	−23	1·9	−0·1	1·10	−0·11	−9	0·2	−0·5	0·09	−0·25	−74
15. Baluchistan . . .	0·4	−1·2	0·22	−0·74	−77	0·6	+0·2	0·33	+0·08	+32	0	−0·3	0	−0·15	−100
16. Sind	0·1	−2·6	0·02	−2·17	−99	0·5	−0·7	0·31	−0·66	−68	0	−0·2	0	−0·15	−100
17. Rajputana, West . .	4·0	−1·1	4·63	+0·47	+11	2·2	−0·3	1·78	−0·28	−14	0	−0·4	0	−0·32	−100
18. Do. East . .	7·1	−2·7	6·19	−2·11	−25	5·3	+0·9	4·55	+0·58	+15	0	−0·7	0	−0·53	−100
19. Gujarat	4·2	−6·7	2·03	−6·14	−75	8·3	+2·6	6·58	+1·93	+42	0·2	−1·0	0·08	−0·84	−91
20. Central India, West .	9·2	−2·7	8·70	−2·40	−22	8·2	+1·9	7·20	+1·96	+37	0	−1·1	0	−0·81	−100
21. Do. do. East .	14·9	+0·8	13·77	+0·62	+5	8·3	+0·6	5·87	−0·76	−11	0·9	−0·8	0·60	−0·91	−60
22. Berar	10·3	0	7·05	+0·10	+1	9·1	+1·3	6·13	+0·28	+5	0·9	−1·4	0·93	−0·66	−42
23. Central Provinces, West .	15·0	+0·5	13·54	+0·71	+6	10·9	+1·6	9·16	+1·58	+21	1·4	−1·0	2·10	+0·27	+15
24. Do. do. East .	18·8	+3·0	17·62	+2 64	+18	12·4	+2·6	8·82	+1·25	+17	3·6	+0·7	2·68	+0·43	+19
25. Konkan . . .	23·9	−0·4	18·36	−5·43	−23	16·1	+1·0	12·67	+0·25	+2	2·3	−3·3	2·37	−1·87	−44
26. Bombay Deccan . .	7·5	−1·8	3·07	−2·26	−42	9·7	+1·5	5·73	+0·13	+2	1·7	−2·8	1·18	−1·80	−60
27. Hyderabad, North . .	9·8	−0·9	5·94	−1·15	−16	9·1	−1·0	5·78	−2·55	−31	2·1	−1·0	1·83	−0·35	−16
28. Do. South . .	8·9	−1·2	3·75	−2·42	−39	5·8	−0·8	5·14	−1·76	−26	3·4	−0·8	3·94	+0·92	+30
29. Mysore	7·4	−1·3	3·63	−1·60	−31	9·5	+1·4	7·31	+2·12	+41	6·1	−1·7	3·40	−1·90	−36
30. Malabar . . .	15·5	−0·4	11·88	−0·52	−4	12·3	+0·9	10·37	+2·55	+33	11·3	−1·6	8·65	−2·49	−22
31. Madras, Southeast	3·9	−1·5	2·13	−1·49	−41	6·0	−0·1	4·46	−0·05	−1	6·2	−2·6	3·62	−3·47	−49
32. Do. Deccan . .	4·8	−1·3	2·15	−1·75	−45	6·6	−1·4	5·09	−0·68	−12	3·9	−1·8	1·94	−2·22	−53
33. Do. Coast, North .	9·5	+0·6	6·41	+0·49	+8	7·1	−1·5	4·40	−2·03	−32	6·8	−0·4	8·14	+1·10	+17

RAINFALL AND NUMBER OF RAINY DAYS WITH THEIR DEPARTURES FROM NORMAL IN 1936—*contd.*

NOVEMBER.					DECEMBER.					YEAR.				
RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.			RAINY DAYS.		RAINFALL.		
Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
		"	"				"	"				"	"	
6·5	—3·0	5·13	—2·45	—32	5·5	+0·5	5·43	+0·79	+17	114·5	—3·9	101·28	+4·89	+5
2·0	—1·4	1·06	—1·54	—59	0·1	—0·6	0·09	—0·42	—82	118·8	—4·9	126·42	+2·60	+2
0·9	—2·0	0·38	—1·46	—79	0·1	—0·7	0·04	—0·42	—91	63·9	—3·2	46·73	—0·14	0
1·9	+0·4	1·04	+0·11	+12	1·8	+1·0	0·84	+0·49	+140	112·9	—2·0	100·78	+0·47	0
0·4	—0·5	0·26	—0·53	—67	0·5	+0·2	0·19	+0·03	+19	87·7	+3·5	75·83	+1·69	+2
1·0	—0·6	0·59	—0·94	—61	0·4	—0·1	0·16	—0·13	—45	88·2	+14·8	75·25	+17·87	+31
1·1	+0·4	0·45	+0·06	+15	1·3	+1·0	0·49	+0·35	+250	86·2	+18·6	65·82	+12·80	+24
0·1	—0·3	0·03	—0·25	—89	1·0	+0·8	0·36	+0·27	+300	66·5	+11·0	58·72	+10·85	+21
0·5	+0·2	0·21	+0·02	+11	1·6	+1·1	0·73	+0·51	+232	61·6	+15·5	57·45	+18·13	+46
0·6	+0·3	0·27	+0·12	+80	2·3	+1·6	1·43	+1·08	+309	55·1	+12·5	53·31	+16·22	+44
0·1	—0·2	0·06	—0·07	—54	2·9	+2·0	1·02	+0·58	+132	36·1	+5·8	25·20	+1·86	+8
0·1	—0·1	0·01	—0·07	—87	2·3	+1·3	0·69	+0·47	+214	20·1	+3·7	12·88	+2·80	+28
2·0	+1·1	0·83	+0·35	+73	6·3	+3·2	3·45	+1·49	+76	56·1	0	43·36	+1·81	+4
0·7	+0·2	0·68	+0·39	+134	3·4	+2·3	1·17	+0·62	+113	29·8	+2·5	17·38	+1·49	+9
0·1	—0·5	0·01	—0·25	—96	4·8	+3·3	2·83	+2·19	+342	16·4	—1·0	8·38	+0·31	+4
0·5	+0·5	0·17	+0·15	+750	0·8	+0·6	0·30	+0·22	+275	6·9	—1·8	5·08	—1·18	—19
0·7	+0·6	0·35	+0·27	+337	0·2	0	0·10	—0·01	—9	13·8	—3·9	11·10	—1·71	—13
1·6	+1·3	0·77	+0·61	+381	0·4	—0·1	0·17	—0·04	—19	32·3	—1·5	24·15	—1·84	—7
3·5	+3·2	2·24	+2·04	+1020	0	—0·1	0	—0·04	—100	33·3	—3·3	23·96	—8·49	—26
3·6	+2·9	3·21	+2·76	+613	0·2	—0·2	0·13	—0·04	—24	42·3	+1·0	34·15	—0·48	—1
3·7	+3·1	2·51	+2·18	+661	0·7	+0·1	0·35	+0·08	+30	61·3	+12·2	48·92	+6·67	+16
5·3	+4·3	6·49	+5·91	+1019	0	—0·7	0·02	—0·37	—95	54·5	+8·2	42·52	+10·04	+31
4·4	+3·6	3·96	+3·39	+595	0·6	0	0·21	—0·12	—36	69·3	+12·5	56·12	+9·57	+21
1·4	+0·7	0·59	+0·18	+44	0·4	—0·2	0·17	—0·11	—39	82·4	+19·2	68·30	+14·46	+27
5·4	+3·9	3·25	+2·24	+222	0	—0·3	0	—0·13	—100	102·3	+8·7	101·95	—6·03	—6
6·0	+4·4	4·63	+3·63	+363	0·1	—0·4	0·04	—0·24	—86	43·5	—4·0	25·84	—4·56	—15
4·4	+3·1	3·88	+3·08	+385	1·0	+0·5	0·37	+0·05	+16	55·9	+6·2	34·64	+0·28	+1
4·1	+2·2	2·76	+1·77	+179	0·8	+0·4	0·53	+0·32	+152	53·2	+3·9	30·44	—0·41	—1
5·5	+1·7	2·90	+0·47	+19	0·4	—0·4	0·16	—0·29	—64	58·8	+3·4	35·32	—0·84	—2
11·0	+1·8	8·03	+0·88	+12	2·0	—0·6	0·88	—0·90	—51	114·7	+3·0	105·22	+5·16	+5
12·2	+3·8	9·71	+2·26	+30	4·3	+0·1	2·92	—0·45	—13	51·9	+3·7	35·11	—0·49	—1
7·2	+3·8	4·45	+2·26	+103	0·3	—0·4	0·10	—0·31	—76	40·8	+0·5	23·05	—1·82	—7
7·8	+3·8	6·52	+2·39	+58	0·6	—0·4	0·49	—0·43	—47	64·8	+14·4	49·56	+11·49	+30

TABLE XII.—AVERAGE OVER THE 16 CHIEF POLITICAL DIVISIONS OF THE ACTUAL RAINFALL WITH ITS DEPARTURE FROM NORMAL FOR THE FOUR SEASONS OF THE YEAR, AND FOR THE WHOLE YEAR, 1936.

Division.	January and February.			March to May.			June to September.			October to December.			Whole year.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	"	"		"	"		"	"		"	"		"	"	
Burma	0·63	+0·30	+91	12·78	+2·28	+22	61·77	−0·10	0	7·77	−1·37	−15	82·95	+1·11	+1
Assam	3·15	+0·97	+44	27·19	+2·16	+9	63·10	−3·03	−5	7·34	+0·37	+5	100·78	+0·47	0
Bengal	1·02	−0·28	−22	15·50	+2·99	+24	54·22	−0·11	0	5·09	−0·91	−15	75·83	+1·69	+2
Orissa	2·77	+1·33	+92	3·70	+3·02	+53	55·82	+12·28	+28	7·96	+1·24	+18	75·25	+17·87	+31
Bihar	0·84	−0·52	−38	3·77	+0·34	+10	51·51	+9·58	+23	4·71	+1·75	+59	60·83	+11·15	+22
United Provinces	1·10	−0·35	−24	1·47	+0·07	+5	50·80	+17·32	+52	1·83	+0·03	+2	55·20	+17·07	+45
Punjab	1·96	+0·04	+2	1·59	−0·36	−18	17·43	+2·11	+14	1·10	+0·29	+36	22·08	+2·08	+10
North-West Frontier Province	4·25	+1·75	+70	3·90	−0·34	−8	7·29	−0·68	−9	1·94	+0·76	+64	17·38	+1·49	+9
Sind	0·39	+0·09	+30	0·15	−0·39	−72	4·07	−1·10	−21	0·47	+0·22	+88	5·08	−1·18	−19
Rajputana	0·31	−0·26	−46	0·59	−0·27	−31	17·83	−1·29	−7	0·76	0	0	19·49	−1·82	−9
Bombay	0·16	−0·04	−20	1·18	−0·35	−23	32·74	−6·95	−18	4·63	+1·21	+35	38·71	−6·13	−14
Central India	0·51	−0·33	−39	0·95	+0·09	+10	32·70	−0·38	−1	3·36	+1·79	+114	37·52	+1·17	+3
Central Provinces	2·58	+1·28	+98	2·20	+0·55	+33	47·82	+7·35	+18	5·30	+2·53	+91	57·90	+11·71	+25
Hyderabad	2·17	+1·68	+343	2·94	+0·94	+47	20·92	−5·55	−21	6·63	+2·89	+77	32·66	−0·04	0
Mysore	0·31	+0·06	+24	5·85	+0·50	+9	22·70	+0·32	+1	6·46	−1·72	−21	35·32	−0·84	−2
Madras	2·22	+1·03	+87	9·47	+3·43	+57	28·06	−0·44	−2	15·37	−0·78	−5	55·12	+3·24	+6
Mean of India	1·36	+0·36	+36	6·10	+1·02	+20	38·17	+1·56	+4	5·43	+0·39	+8	51·06	+3·33	+7

TABLE XIII.—AVERAGE OVER THE 33 SUB-DIVISIONS OF THE ACTUAL RAINFALL WITH ITS DEPARTURE FROM NORMAL FOR THE FOUR SEASONS OF THE YEAR AND FOR THE WHOLE YEAR, 1936.

SUB-DIVISION.	JANUARY AND FEBRUARY.			MARCH TO MAY.			JUNE TO SEPTEMBER.			OCTOBER TO DECEMBER.			WHOLE YEAR.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	"	"		"	"		"	"		"	"		"	"	
1. Bay Islands	0·63	—1·06	—63	13·32	—0·99	—7	71·58	+12·19	+21	15·75	—5·25	—25	101·28	+4·89	+5
2. Lower Burma	0·49	+0·15	+44	16·87	+2·92	+21	100·45	+1·86	+2	8·61	—2·16	—20	126·42	+2·60	+2
3. Upper Burma	0·74	+0·41	+124	9·39	+1·77	+23	29·54	—1·60	—5	7·06	—0·72	—9	46·73	—0·14	0
4. Assam	3·15	+0·97	+44	27·19	+2·16	+9	63·10	—3·03	—5	7·34	+0·37	+5	100·78	+0·47	0
5. Bengal	1·02	—0·28	—22	15·50	+2·99	+24	54·22	—0·11	0	5·09	—0·91	—15	75·83	+1·69	+2
6. Orissa	2·77	+1·33	+92	8·70	+3·02	+53	55·82	+12·28	+28	7·96	+1·24	+18	75·25	+17·87	+31
7. Chota Nagpur	1·48	—0·42	—22	4·12	+0·50	+14	52·43	+9·87	+23	6·29	+2·85	+83	65·32	+12·80	+24
8. Bihar	0·56	—0·56	—50	3·68	+0·28	+8	50·62	+9·43	+23	3·91	+1·20	+44	58·72	+10·35	+21
9. United Provinces, East.	1·36	+0·17	+14	1·18	—0·02	—2	53·05	+18·41	+53	1·86	—0·43	—19	57·45	+18·13	+46
10. United Provinces West.	0·88	—0·79	—47	1·73	+0·17	+11	48·83	+16·39	+50	1·82	+0·45	+33	53·31	+16·22	+44
11. Punjab, East and North.	2·10	—0·12	—5	1·60	—0·47	—23	20·26	+2·16	+12	1·24	+0·29	+31	25·20	+1·86	+8
12. Punjab, South-west.	1·54	+0·50	+48	1·59	—0·01	—1	9·05	+2·02	+29	0·70	+0·29	+71	12·88	+2·80	+28
13. Kashmir	7·36	+0·74	+10	10·60	+0·51	+5	19·29	—0·94	—5	5·01	+1·50	+43	43·36	+1·81	+4
14. North-West Frontier Province.	4·25	+1·75	+70	3·90	—0·34	—8	7·29	—0·68	—9	1·94	+0·76	+64	17·38	+1·49	+9
15. Baluchistan	3·05	+0·70	+30	1·06	—1·11	—51	1·43	—1·07	—43	2·84	+1·79	+170	8·38	+0·31	+4
16. Sind	0·39	+0·09	+30	0·15	—0·39	—72	4·07	—1·10	—21	0·47	+0·22	+88	5·08	—1·18	—19
17. Rajputana, West	0·24	—0·17	— 41	0·11	—0·66	—86	10·30	—0·82	—7	0·45	—0·06	—12	11·10	—1·71	—13
18. Do. East	0·35	—0·30	—46	0·85	—0·07	—8	22·01	—1·51	—6	0·94	+0·04	+4	24·15	—1·84	—7
19. Gujarat	0·07	—0·12	—63	0·05	—0·38	—88	21·52	—9·15	—30	2·32	+1·16	+100	23·96	—8·49	—26
20. Central India, West.	0·28	—0·41	—59	0·88	+0·08	+10	29·65	—2·06	—6	3·34	+1·91	+134	34·15	—0·48	—1
21. Central India, East	1·34	—0·04	—3	1·20	+0·12	+11	42·92	+5·24	+14	3·46	+1·35	+64	48·92	+6·67	+16
22. Berar	2·64	+1·89	+252	2·20	+1·08	+96	30·24	+2·19	+8	7·44	+4·88	+191	42·52	+10·04	+31
23. Central Provinces, West.	1·67	+0·32	+24	2·19	+0·73	+50	45·99	+4·98	+12	6·27	+3·54	+130	56·12	+9·57	+21
24. Central Provinces, East.	3·24	+1·66	+105	2·21	+0·09	+4	59·41	+12·21	+26	3·44	+0·50	+17	68·30	+14·46	+27
25. Konkan	0	—0·15	—100	1·58	—0·44	—22	94·75	—5·68	—6	5·62	+0·24	+4	101·95	—6·03	—6
26. Bombay, Deccan	0·27	+0·03	+13	1·79	—0·28	—14	17·93	—5·90	—25	5·85	+1·59	+37	25·84	—4·56	—15
27. Hyderabad, North	2·12	+1·60	+308	2·66	+0·93	+54	23·78	—5·03	—17	6·08	+2·78	+84	34·64	+0·28	+1
28. Do. South	2·22	+1·76	+383	3·25	+0·94	+41	17·74	—6·12	—26	7·23	+3·01	+71	30·44	—0·41	—1
29. Mysore	0·31	+0·06	+24	5·85	+0·50	+9	22·70	+0·32	+1	6·46	—1·72	—21	35·32	—0·84	—2
30. Malabar	0·72	—0·70	—49	21·65	+9·17	+73	65·29	—0·80	—1	17·56	—2·51	—13	105·22	+5·16	+5
31. Madras, Southeast	2·15	+0·69	+47	5·55	+1·20	+28	11·16	—0·72	—6	16·25	—1·66	—9	35·11	—0·49	—1
32. Do. Deccan	0·79	+0·44	+126	3·42	+0·94	+38	12·35	—2·95	—19	6·49	—0·27	—4	23·05	—1·82	—7
33. Do. Coast, North.	5·12	+4·37	+583	5·20	+2·01	+63	24·09	+1·96	+9	15·15	+3·16	+26	49·56	+11·49	+30

TABLE XIV.—AVERAGE OVER THE 33 SUB-DIVISIONS OF ACTUAL NUMBER OF RAINY DAYS WITH THEIR DEPARTURES FROM NORMAL FOR THE FOUR SEASONS OF THE YEAR AND FOR THE WHOLE YEAR, 1936.

Sub-Division.	January and February.		March to May.		June to September.		October to December.		Whole Year.	
	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.
1	2	3	4	5	6	7	8	9	10	11
1. Bay Islands	1·5	—0·5	16·5	0	76·5	+4·0	20·0	—7·4	114·5	—3·9
2. Lower Burma	0·8	+0·2	15·4	+0·2	87·8	—0·7	9·8	—4·6	113·8	—4·9
3. Upper Burma	1·8	+0·9	13·2	+1·7	40·7	—2·9	8·2	—2·9	63·9	—3·2
4. Assam	7·6	+2·6	29·0	—3·3	66 2	—2·4	10·1	+1·1	112·9	—2·0
5. Bengal	2·3	—0·1	16·5	+0·8	62·7	+3·1	6·2	—0·3	87·7	+3·5
6. Orissa	5·8	+3·4	10·8	+1·4	63·7	+9·9	7·9	+0·1	88·2	+14·8
7 Chota Nagpur	3·9	+0·4	7·6	+0·5	66·4	+14·2	8·3	+3·5	86·2	+18·6
8. Bihar	1·6	—0 8	6·1	+0·6	54·0	+9·7	4·8	+1·5	66·5	+11·0
9. United Provinces, East	3·5	+0·8	2·7	+0·1	51·9	+13·6	3·5	+1·0	61·6	+15·5
10. Do. Do. West	2·7	—0·8	3·7	+0·1	45·5	+11·9	3·2	+1·3	55·1	+12·5
11. Punjab, East and North	4·5	+0·3	4·1	—0·4	24·1	+4·3	3·4	+1·6	36·1	+5·8
12. Do. Southwest	3·4	+0·9	3·3	—0·7	11·0	+2·0	2·4	+1·5	20·1	+3·7
13. Kashmir	9·5	—0·6	13·9	—2·1	23·4	—0·9	9·3	+3·6	56·1	0
14. North-West Frontier Province	7·1	+2·1	6·9	—1·7	11·5	+0·1	4·3	+2·0	29·8	+2·5
15. Baluchistan	6·1	+0·6	2·6	—2·6	2·8	—1·5	4·9	+2·5	16·4	—1·0
16. Sind	1·2	+0·4	0·5	—0·8	3·9	—2·3	1·3	+0·9	6·9	—1·8
17. Rajputana, West	0·7	—0·3	0·4	—1·4	11·8	—2·4	0·9	+0·2	13·8	—3·9
18. Do. East	1·3	—0·3	2·3	0	26·7	—1·7	2·0	+0·5	32·3	—1·5
19. Gujarat	0·3	—0·1	0·1	—0·8	29·7	—5·0	3·7	+2·1	33·8	—3·8
20. Central India, West	1·0	—0·5	2·3	+0·5	35·2	—0·6	3·8	+1·6	42·3	+1·0
21. Do. Do. East	3·0	+0·1	3·2	+0·7	50·3	+9·0	5·3	+2·4	61·8	+12·2
22. Berar	4·4	+3·0	4·9	+2·3	39·0	+0·7	6·2	+2·2	54·5	+8·2
23. Central Provinces, West	4·2	+1·7	5·0	+1·7	53·7	+6·5	6·4	+2·6	69·3	+12·5
24. Do. Do. East	6·1	+3·4	5·8	+1·3	65·1	+13·3	5·4	+1·2	82·4	+19·2
25. Konkan	0	—0·3	2·9	+0·2	92·2	+8·5	7·7	+0·3	102·8	+8·7
26. Bombay, Deccan	0·6	+0·1	3·2	—0·8	31·9	—4·5	7·8	+1·2	43·5	—4·0
27. Hyderabad, North	3·7	+2·7	5·5	+1·8	39·2	—0·9	7·5	+2·6	55·9	+6·2
28. Do. South	3·4	+2·6	6·1	+1·4	35·4	—1·9	8·3	+1·8	53·2	+3·9
29. Mysore	0·7	+0·3	10·6	+1·7	35·5	+1·8	12·0	—0·4	58·8	+3·4
30. Malabar	1·2	—0·9	10·1	+3·2	63·6	+1·1	24·8	—0·4	114·7	+3·0
31. Madras, Southeast	3·2	+1·2	7·9	+1·3	18·1	—0·1	22·7	+1·3	51·9	+3·7
32. Do. Deccan	1·5	+0·9	6·5	+1·9	21·4	—3·9	11·4	+1·6	40·8	+0·5
33. Do. Coast, North	6·7	+5·7	6·5	+1·7	36·4	+4·0	15·2	+3·0	64·8	+14·4

TABLE XV.—SHOWING RAINFALL OF 10" AND OVER, WITH AMOUNTS IN THE PRECEDING AND FOLLOWING 24 HOURS, DURING THE YEAR 1936.

Province and District.	Station.	Date.	Amount.			Province and District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.				Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6	1	2	3	4	5	6
			"	"	"				"	"	"
BURMA.						ORISSA.					
Sandoway	Sandoway	May 31	4·85	13·04	5·20	Cuttack	Banki	June 14	4·68	11·63	0·04
Akyab	Buthidaung	June 4	3·70	11·20	2·48	Do.	Kendrapara	„ 13	1·75	15·20	1·57
Do.	Pauktaw	„ 4	8·50	10·10	1·25	Do.	Patamundai	„ 13	3·02	11·06	0·90
Amherst	Mudon	July 1	2·02	11·76	2·23	Do.	Tikarpara (Purnakot.)	„ 14	4·72	10·08	1·34
Do.	Panga	„ 16	1·75	13·75	11·55	Ganjam	Balandapara	„ 14	6·19	13·30	15·55
Do.	Do.	„ 17	13·75	11·55	3·60	Do.	Do.	„ 15	13·30	15·55	1·63
Do.	Karoppi	„ 16	3·11	10·14	2·74	Cuttack	Jagatsingpur	Oct. 3	0·41	10·15	1·08
Akyab	Myohaung	Aug. 6	3·92	11·75	6·54	Puri	Bhubaneswar	„ 4	0·25	10·26	1·24
Amherst	Panga	Sep. 3	0·27	10·25	0·27	BIHAR.					
ASSAM.						Saran	Siwan	July 17	0·38	12·70	0
Cachar (North Cachar Hills.)	Jatinga Valley	April 5	2·40	13·41	2·34	Do.	Buchia	„ 31	1·23	16·80	0·03
Khasi and Jaintia Hills.	Shillong	May 29	6·36	15·00	0·20	Gaya	Aurangabad	Sept. 12	5·23	11·01	0·53
Do.	Upper Shillong	„ 29	6·71	13·35	0·22	Do.	Sherghati	„ 10	0·31	11·86	9·12
Do.	Mawphlang	„ 29	9·22	19·39	1·80	Do.	Barachati	„ 10	1·70	16·09	8·96
Do.	Cherrapunji Police Station	„ 29	9·56	23·05	0·26	Shahabad	Chenari	„ 10	0·06	12·40	15·53
Do.	Cherrapunji Welsh Mission House.	„ 27	4·00	14·73	25·10	Do.	Do.	„ 11	12·40	15·53	0·63
Do.	Do.	„ 28	14·73	25·10	0·41	Monghyr	Gidhaur	„ 12	0·62	10·77	0·34
Do.	Jowai	„ 29	6·63	10·50	2·25	Bhagalpur	Bangaon (Barlahi)	„ 2	0·02	10·92	0·17
Lushai Hills	Sialsuk	„ 29	1·09	11·58	1·48	Purnea	Kishanganj	„ 13	0·99	12·02	0·08
Sylhet	Sunamganj	June 8	4·52	12·10	0·22	Do.	Bahadurganj	„ 12	0·26	10·60	0·09
Khasi and Jaintia Hills.	Cherrapunji Police Station.	„ 3	3·31	16·65	1·42	Santal Parganas	Sahibganj	Oct. 6	0	11·45	3·40
Do.	Do.	„ 8	9·67	11·57	0·20	Ranchi	Chainpur	„ 6	0·68	10·28	0
Do.	Cherrapunji Welsh Mission House.	„ 3	3·50	18·86	3·30	UNITED PROVINCES.					
Do.	Do.	„ 8	8·54	13·78	0·34	Pilibhit	Bisalpur	June 24	4·17	11·60	4·10
Do.	Cherrapunji Police Station.	July 16	2·62	10·78	3·25	Dehra Dun	Mussooree	Aug. 30	0·02	11·83	0·33
Do.	Cherrapunji Welsh Mission House.	„ 10	5·29	15·00	18·42	Mirzapur:	Mirzapur	„ 8	0·50	11·50	2·39
Do.	Do.	„ 11	15·00	18·42	10·34	Do.	Chunar	„ 8	1·45	12·54	0·39
Do.	Do.	„ 12	18·42	10·34	6·59	Do.	Ahraura	„ 8	0·33	11·00	0·92
Do.	Do.	„ 15	5·37	15·12	6·65	Garhwal	Lansdowne	„ 30	0	10·45	0·96
Do.	Do.	„ 25	5·90	16·80	27·60	Bareilly	Debiabojh	Sept. 10	0	11·65	0·82
Do.	Do.	„ 26	16·80	27·60	9·17	KASHMIR.					
Sylhet	Sunamganj	Sept. 15	4·35	12·90	1·52	Kashmir	Sonamarg	Feb. 27	2·70	11·80	2·05
Do	Do.	„ 17	1·52	12·21	7·42	BOMBAY.					
Khasi and Jaintia Hills.	Cherrapunji Police Station.	„ 11	4·00	10·67	5·65	Surat	Pardi	June 27	0·92	11·43	0·85
Do.	Cherrapunji Welsh Mission House.	„ 11	3·92	10·35	7·23	Satara	Mahableshwar	„ 26	7·27	11·01	12·22
Do.	Cherrapunji Police Station.	Oct. 6	2·24	11·28	11·37	Do.	Do.	„ 27	11·01	12·22	3·63
Do.	Do.	„ 7	11·28	11·37	3·14	Thana	Vada	„ 27	3·35	10·39	0·78
Do.	Cherrapunji Welsh Mission House.	„ 6	2·28	11·09	11·39	Do.	Dahanu	„ 27	1·28	12·23	1·04
Do.	Do.	„ 7	11·09	11·39	3·35	Kolaba	Mahad	„ 27	6·55	10·40	0·95
BENGAL.						Kanara	Ankola	„ 22	6·43	13·34	3·49
Bakarganj	Daulatkhan	May 28	1·45	11·50	0	CENTRAL INDIA.					
Tippera	Comilla	„ 28	0 61	13·57	0·01	Rewah State	Sidhi	Aug. 7	1·90	10·36	2·35
Noakhali	Noakhali	„ 28	1 55	11·00	1·40	MADRAS.					
Do.	Lakhmipur	„ 28	2·10	10·20	0	Cochin State	Cranganore	May 21	0·65	11·24	7·85
Chittagong	Kutubdia	June 2	0	11·98	2·60	Malabar	Cannanore	„ 22	0	10·15	0·83
Chittagong Hill Tracts.	Lama	Aug. 7	7·35	15·25	0·67	Do.	Tellicherry	„ 22	0	15·11	0·84
						Do.	Badagara	„ 22	1·19	11·65	0·85
						Coorg	Bhagamandla	June 30	6·63	10·55	4·40
						East Godavari (Plains).	Prattipadu	Oct. 29	1·65	11·56	1·02
						Do.	Cocanada	„ 29	5·03	11·10	0·22
						Kistna	Nandigama	„ 29	0·19	10·13	3·67
						Nellore	Kandukur	Nov. 7	0·20	10·98	1·28
						Do.	Nellore	„ 7	5·04	14·05	0·73
						Do.	Tada	„ 6	0·25	11·26	2·69

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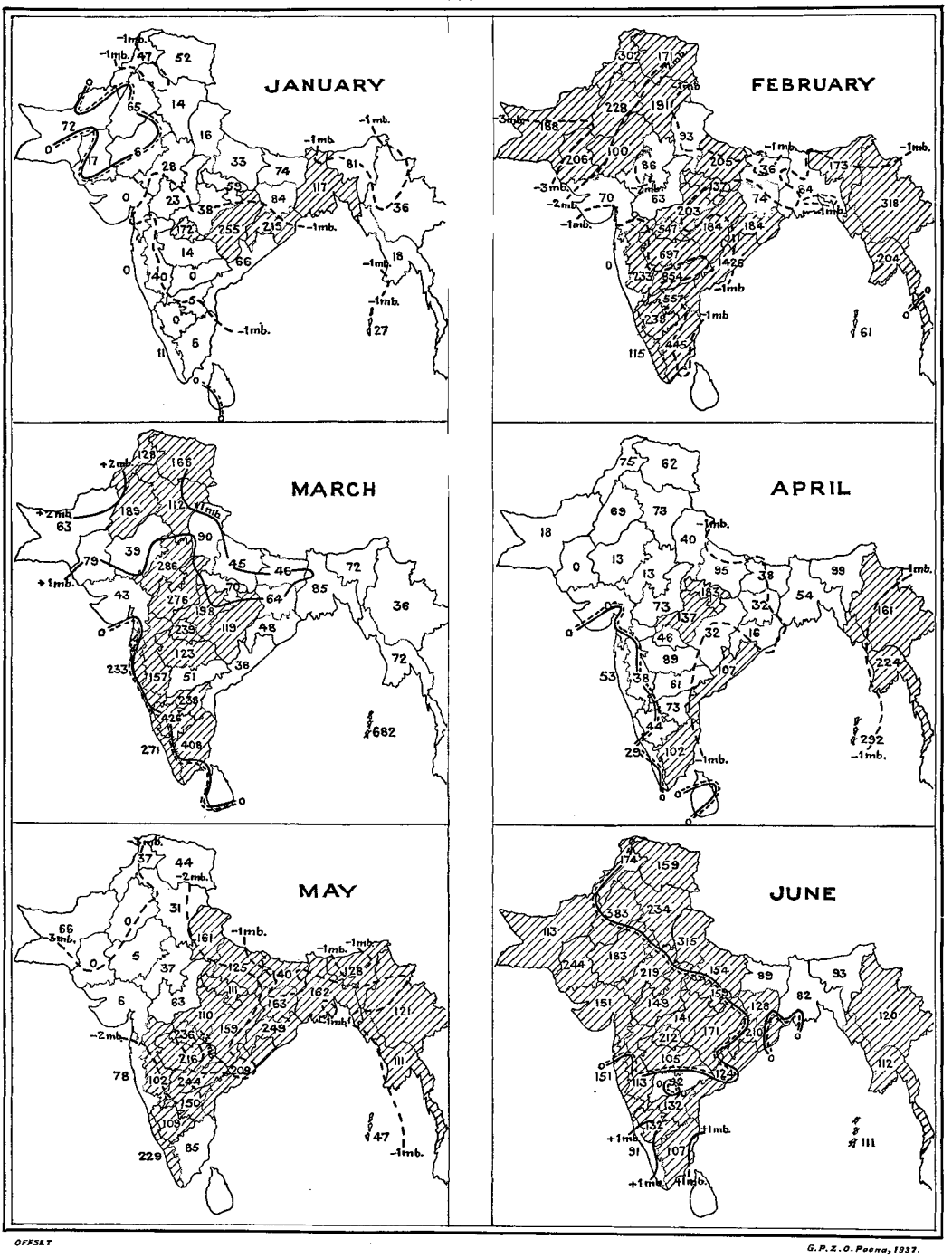
SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS)
AND MEAN MONTHLY PRESSURE ANOMALIES (IN MILLIBARS)
1936

Plate A 1.



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AND MEAN MONTHLY PRESSURE ANOMALIES (IN MILLIBARS)

1936

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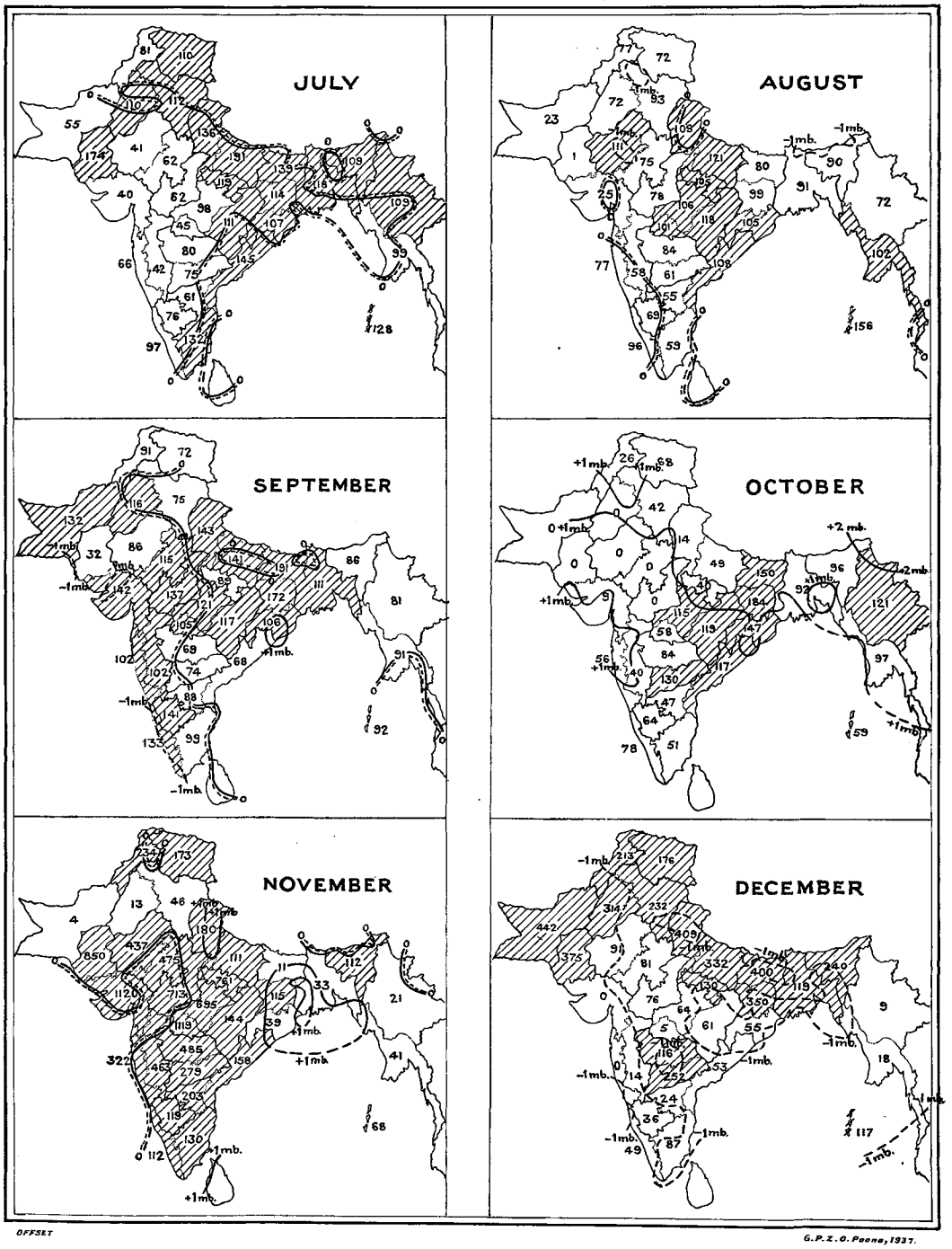

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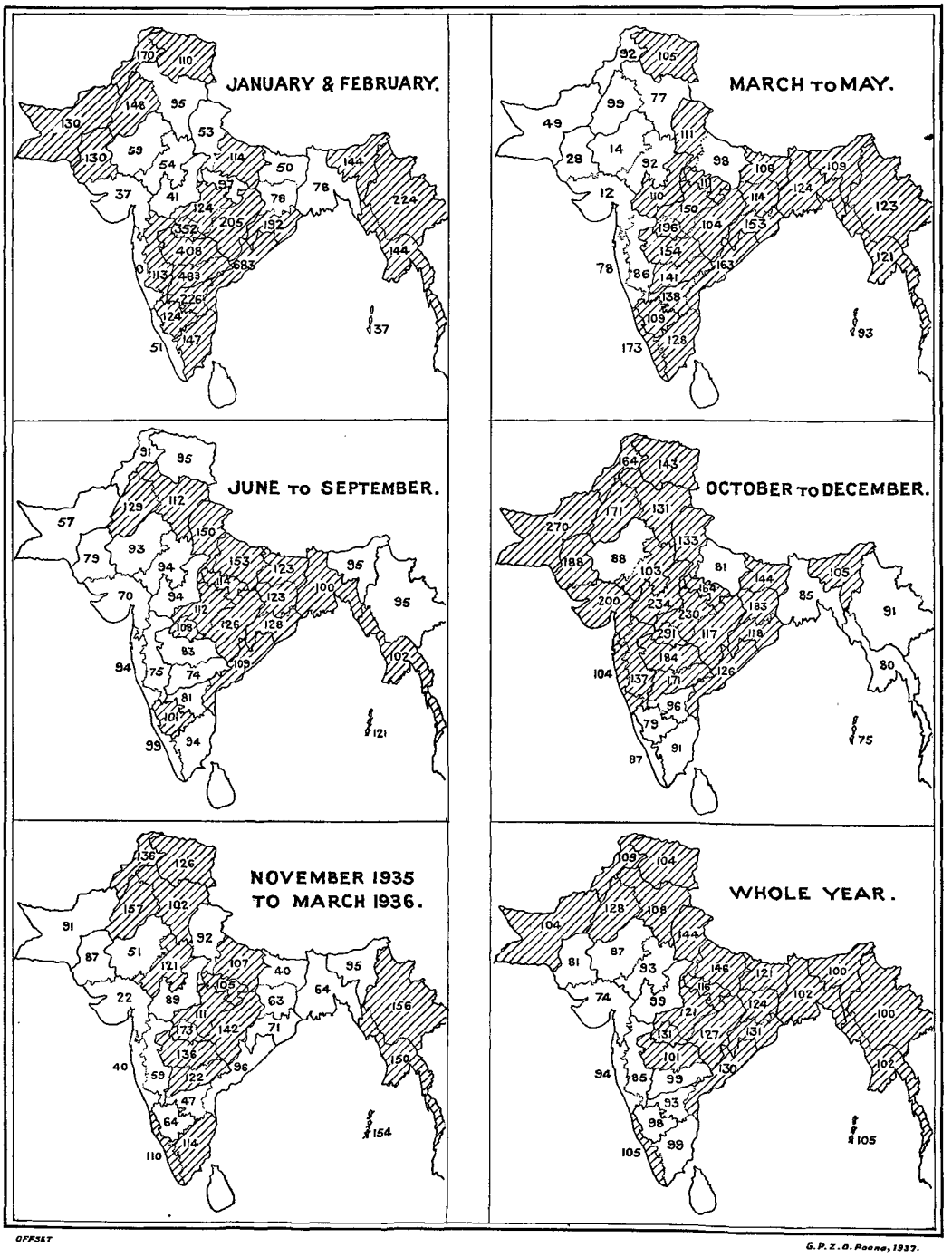
SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS)
IN DIFFERENT PERIODS OF THE YEAR 1936

Plate A 3.



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GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1936.

ANNUAL SUMMARY

PART B

SNOWFALL

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Published by the Authority of the Government of India

UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.,

Director General of Observatories

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INDIA WEATHER REVIEW, 1936.

ANNUAL SUMMARY.

PART B.

SNOWFALL.

This part contains a summary of the reports of snowfall in the mountain regions to the north and northwest of India. These reports are collected by local officers from the local residents, headmen of villages, or from travellers who have passed through the region and are then transmitted to this office.

The amount of snowfall is usually measured by finding the depth of undisturbed snow lying on the ground and such measurements are given in feet and inches. At places provided with raingauges the amount of snow collected in the gauge is melted and measured as rain; this is indicated in the text and the amounts are then given in inches and cents.

Cold Weather Period, January and February.

I.—AFGHANISTAN.

Kabul.—Some falls of snow occurred in the early part of January, Kabul itself receiving 0'7" on the 2nd and 3rd; snow remained on the ground till the end of the month. Very little snow fell in any part of the country from the middle of January up to the end of the period. The snowfall of the period was generally below normal. Passes which are usually closed were open throughout the winter.

II.—BALUCHISTAN.

Quetta.—Snow or sleet fell on 6 days in January and on 2 days in February at Quetta. The snowfall of the period over most of Baluchistan is reported to have been above normal.

III.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Hazara.*—Snow is reported to have fallen on 12 days in January and 15 days in February. Falls were below normal in January and above normal in February. The snowline is said to have descended to 4,400 feet in January and further down to 3,000 feet in February. The accumulations were generally below the average at the end of January and above the average in February. The following table gives the approximate total depths of falls in each month and the depths of accumulations at the end of each month.

Locality.	January.		February.	
	Falls.	Accumulations.	Falls.	Accumulations.
	Ft.	Ft.	Ft.	Ft.
Narang	9½	4¾	21	15
Pludran	8	3	17	14
Kagan	6	1	12	9½
Jared	1½	..	1	..
Malakandi	1½	¼	2	2
Sundigali	4	1	4½	3½
Jachha	3½	¾	4	2½
Thandiani	5	2½	10½	8½
Dungagali	3	2	8½	10
Birangali	1½	½	¾	..

(*b*) *Dir, Swat and Chitral.*—No information was received.

(*c*) *Khyber Agency.*—Snow fell on the peaks of Adina, Gurdama and Malaka to a depth of 1½ ft. and 2 ft. in January and February respectively. Tirah experienced heavy snowfalls during the period.

(*d*) *Kohat.*—Fort Lockhart had 1½ ft. and 1¼ ft. of snowfall during January and February respectively.

IV.—KASHMIR.

(*a*) *Skardu.*—Snow fell at the station and on the surrounding hills on 4 days in January and 6 days in February. The snowline descended to 7,500 ft. each time. The falls of the period were below the average. Depths of estimated accumulations on higher peaks and passes were about 6 feet at the end of January and 10 feet about the end of February.

(*b*) *Dras.*—Snow is reported to have fallen at Dras on several days in January and February. Snowfall of the season was above normal. The accumulations on the Zojila and Mushkoo passes are estimated at 8 ft. and 18 ft. at the end of January and February respectively.

(*c*) *Srinagar.*—Several light to moderate and some heavy falls of snow occurred on the surrounding mountains and in the main valley during the season. The falls were below normal in January and above normal in February. The accumulations on the surrounding mountains were normal at the end of January and slightly above it by the end of February.

(*d*) *Kargil.*—Snow fell at the station on 8 days in January and 5 days in February. Falls for the season were above normal. Accumulations on the peaks and passes were estimated at 6½ feet at the end of January and 18 feet at the end of February.

(*e*) *Sonamarg.*—Heavy snowfalls were observed during the first 12 days of January and in the last week of February. Snowfalls were above the average in both the months. Accumulations of snow on the Zojila pass were about 7 ft.

at the end of January and about 15 feet at the end of February.

V.—Punjab.

(*a*) *Rawalpindi.*—Snow fell on 4 days in January and 5 days in February on the peaks in the neighbourhood of Murree. The snowline descended to about 5,500 ft. Falls were below the average.

(*b*) *Kulu* (*Kangra District*).—In the Kangra district there were no falls of snow during the season except on the high ranges of the Himalayas. Accumulations of snow on the higher ranges were normal. In the Kulu sub-division falls were confined to elevations above 5,000 ft. in January and above 4,000 ft. in February.

(*c*) *Simla.*—Snow fell on 11 days in January and on 9 days in February. Falls were below the average in both the months. The snowline descended to 6,000 ft. in January and to 5,000 ft. in February. All well known high passes were closed for traffic during the period. Depths of accumulations in the various passes were estimated to be 6 ft. at the end of January and 9 feet at the end of February.

VI.—United Provinces.

(*a*) *Almora.*—The following table gives the falls of snow for the two months :—

Locality.	Falls.	
	January.	February.
	Ft.	Ft.
Chaudans	¾	1
Malla Johar	1	¾
Malla Darma	3	2

The falls were below the average in both the months.

(*b*) *Garhwal.*—Snowfall in the higher valleys of the district amounted to about 1 ft. in January and about 1½ ft. in February.

VII.—Assam.

(*a*) *Kamrup.*—No snow fell during the period. All passes were open to traffic.

(*b*) *Sadiya Frontier Tract.*—A very heavy fall occurred at Tidding in February ; the snowline descended to 5,000 ft.

Hot Weather Period, March to May.

I.—Afghanistan.

Kabul.—In the first week of March there was snowfall all over the country, Kabul registering 0·3″ of snow. In the second week of April snow is reported to have fallen on the Bamar and Shibar passes. Generally snowfall was less than usual. Accumulations on the mountains were also less than usual. Snow had disappeared on the Paghman range, except for occasional pockets, before the end of May which is an earlier date than usual ; but the Hindu Kush was well covered with snow until the end of May.

II.—Baluchistan.

Quetta.—Very light falls occurred on 4 days in the first half of March. The snow on the peaks of mountains around Quetta almost disappeared by the middle of March.

III.—North-West Frontier Province.

(*a*) *Hazara.*—Snow fell on 10 days in March on the surrounding hills above 4,500 ft. and was above the average. Accumulations at the end of the season are reported to have been between 1¾ ft. and 7½ ft. at heights of 10,000 ft. to 17,000 ft.

The following table gives the amounts of falls recorded in the month of March :—

Locality.	Falls.
	Ft.
Narang	12½
Pludran	11
Kagan	9½
Jared	4½
Malakandi	2¼
Sundigali	3
Jachha	2½
Thandiani	5
Dungagali	5
Birangali	¼

(*b*) *Dir, Swat and Chitral.*—Snow fell on the high ranges of Chitral during May. Accumulations on the well known passes of the country at the end of the period were above normal. At Drosh no snow fell in May.

Malakand reported no snowfall in any place below 12,000 ft. Accumulations at the end of the period were below normal and were quickly melting away.

(*c*) *Khyber.*—Tirah experienced heavy snowfall in March and light snowfall in April. No snow fell in May.

(*d*) *Kurram.*—Accumulations on high peaks were normal at the end of May and were rapidly disappearing.

(*e*) *Kohat.*—Fort Lockhart reported 1′ 5″ snow in March. No snow fell in April and May.

(*f*) *South Waziristan.*—No reports were received for March and April. No snow fell in May. Accumulations had melted away by the end of the season.

(*g*) *Dera Ismail Khan.*—Snowfall on the Suleiman range was reported to be normal ; accumulations of snow melted away early in May, as usual.

IV.—Kashmir.

(*a*) *Skardu.*—Snow fell on seven days in March and four days in each of the months April and May. The snowline was reported to have descended to 7,500 ft. in March and ascended to 9,000 ft. in April and to 10,000 ft. in May. Snowfall was said to be about average in March and April, and below it in May. The accumulation of snow on well known peaks and passes was estimated at 14 ft. at the end of March, 10 ft. at the end of April and 4 ft. at the end of May.

(*b*) *Dras.*—Snowstorms occurred on 8 days in March and 2 days in April. The amounts were above normal in both the months. No snow fell in May. Accumulations on the Mushkoo and Zojila passes were 30 ft. at the end of March,

20 ft. at the end of April and 12 ft. at the end of May, and were above normal.

(*e*) *Srinagar.*—Moderate to heavy falls of snow were received in the valley and on the surrounding mountains in March. The snowfall at the beginning of March was very heavy and caused great hardship to people and damage to property. Several light to moderate falls of snow also occurred on the surrounding mountains in April and a few light falls in May. The falls were much above the average in March, about the average in April, and below the average in May. Depths of accumulations on the surrounding mountains were more than 5 ft. at the end of March and were normal at the end of the season.

(*d*) *Kargil.*—Snow fell on 9 days in March and one day in April. No snow fell in May. The falls were above normal in March. The accumulations of snow on the neighbouring passes at the end of the various months were 24, 13 and 12 ft. respectively and were above the average.

(*e*) *Sonamarg.*—At the station several heavy falls occurred in March, and a few light falls in April, while no snow fell in May. The falls on the surrounding hills are reported to have been above the average. The accumulations of snow on the Zojila pass were estimated at 14 ft. at the end of March and at 13 ft. at the end of May.

(*f*) *Gurez.*—No information was received for March and April. No snow fell in May.

(*g*) *Leh.*—No reports were received for March and April. Accumulations at the end of May were less than the average. All passes were open to traffic.

V.—Punjab.

(*a*) *Rawalpindi.*—Light to moderate snow fell on 7 days in March on the higher peaks in the districts, and in places as low as 5,500 ft. on some occasions. The falls were below the average and snow had melted away before the end of April.

(*b*) *Kulu* (*Kangra District*).—Falls of snow occurred at elevations above 6,000 ft. in March and above 7,000 ft. in April. The accumulations at the end of the season at the Rohtang and Hamta passes were 3 ft. and 5 ft. respectively and were below normal.

(*c*) *Chamba.*—No reports were received for March and April. Snow fell once on the 19th May on altitudes above 12,000 ft. The accumulation of snow on well known peaks and passes was 15 ft. at the end of the period and was below the average.

(*d*) *Kilba* (*Simla District*).—Snow fell on 15 days in March. The snowline descended to an elevation of 8,000 ft. The well known peaks and passes received about 10 ft. of snow. Light snow fell in April on elevation above 9,000 ft. No snow fell in May except on very high peaks. Falls were below the average throughout the period.

VI.—United Provinces.

(*a*) *Almora.*—The following table gives the amount of falls for each month.

Locality.	Falls.		
	March.	April.	May.
	Ft.	Ft.	Ft.
Malla Johar	1	½	1½
Chaudans	9	6	4
Byans	..	8	4

The falls were generally below the average.

(*b*) *Garhwal.*—No reports were received for March and April. Snow fell twice to a depth of half a foot on elevations above 9,000 ft. during May, but soon melted away. Accumulations on the well known peaks and passes were about 5 ft. deep and were below normal.

VII.—Assam.

Baliapara Frontier Tract.—Snow fell to a depth of 1 ft. on the 8th and 9th April above the height of 11,000 ft. Snow on the Se-La pass was less than usual. The accumulation of snow on the Se-La pass at the end of March was about 2 ft.

South-West Monsoon Period, June to September.

JUNE AND JULY.

I.—Afghanistan.

Kabul.—There were no heavy falls of snow in the locality or in the adjacent regions during the season. Snow accumulations at higher levels were less than normal.

II.—North-West Frontier Province.

(*a*) *Hazara.*—The total amount of snowfall during these two months was estimated at 0'3" to 0'10" at heights ranging from 10,000 to 17,000 ft. The accumulations at these heights at the end of July ranged from 2 to 8 ft.

(*b*) *Dir, Swat and Chitral.*—No snow fell at Chitral, Drosh and Malakand during the period. The accumulation of snow at the end of the season was normal at Drosh; very little snow remained even on the high peaks of Malakand.

(*c*) *Khyber Agency.*—No snow fell in Tirah during the season. Snow existed as usual at the end of the season on the tops of the Gurdama, Adina and Malaka peaks.

(*d*) *Kurram.*—No snow fell in Parachinar and the adjacent region during the season. The accumulations of snow on the peaks of the Safed Koh were reported to be normal.

(*e*) *Waziristan.*—No report was received from North Waziristan. There was no snowfall in South Waziristan. Snow accumulations on the tops of the mountains melted away by the end of the season.

III.—Kashmir.

(*a*) *Skardu.*—There were three falls of snow in June and one in July. The snowline was reported to have descended to 11,000 ft. during the season. The accumulations

of snow on the surrounding peaks and passes at the end of June were estimated to be 2½ ft. deep. By the end of the season all snow had melted away.

(*b*) *Dras.*—There were two falls of snow in June. The mountain peaks and passes were reported to be covered with a thin layer of snow at the end of the season.

(*c*) *Srinagar.*—No snow fell either on the surrounding mountains or in the main valley during the season. The accumulations of snow at the end of the season, in particular on the Pir Panjal range, were greater than usual.

(*d*) *Gulmarg.*—Three light to moderate falls of snow were observed on the Afarwat mountain in June and one light fall in July. Snow accumulations existed on the top, and in the gorges of the Afarwat and the Handibal mountains and were reported to be greater than usual.

(*e*) *Kargil.*—No snow fell in June. Accumulations about 4 ft. deep existed in passes at the end of June, but had disappeared by the end of July.

(*f*) *Sonamarg.*—No snow fell during the season. Accumulations of snow 4 ft. deep were observed on the Zojila and Dachi passes.

(*g*) *Gurez.*—No snow fell in either months. Snow on the tops of the surrounding mountains melted away by the end of the season.

(*h*) *Leh.*—Snowfall during the season was scanty. Accumulations were to be found only above 17,000 ft.

IV.—Punjab.

(*a*) *Chamba.*—There were three falls of snow in June and one in July. The accumulations of snow were visible only on altitudes above 12,000 ft. and were reported to be rather below normal.

(*b*) *Kulu* (*Kangra District*).—There was no snowfall in the district during the season. Accumulations on the ranges and passes at the end of the period were normal.

(*c*) *Kilba* (*Simla District*).—Occasional light falls of snow were observed on the highest peaks of all the surrounding mountains in June. The falls were below normal. The snowline descended in either month to about 13,000 ft. Accumulations at the end of the month were below the average. Fresh falls of snow at heights above 14,000 ft. were witnessed in July. Snow accumulations on the tops of the mountains melted away by the end of the season.

V.—United Provinces.

(*a*) *Almora.*—The snowfall at the principal localities, namely, Byans, Chaudans, Malla Danpur, Malla Johar and Malla Darma appears to have been fairly heavy according to the reports of the patwaris. The accumulations at the passes were reported to be deeper than usual at the end of July.

(*b*) *Garhwal.*—Snow fell to a depth of two to three ft. on heights above 12,000 ft. during the season. Accumulation of snow at a height of 15,000 ft. was 1½ ft. deep towards the end of the period.

AUGUST AND SEPTEMBER.

I.—Afghanistan.

No reports were received.

II.—North-West Frontier Province.

No reports were received.

III.—Kashmir.

(*a*) *Skardu.*—Five light falls of snow were reported during the period, one in August and four in September. The falls were confined to elevations above 10,000 ft. and were normal.

(*b*) *Dras.*—Light snow fell on the surrounding peaks on one day in August and on three days in September. The falls were above normal in the former and below normal in the latter month. The accumulation of snow on the Zojila and Mushkoo passes was about 0'3" at the end of the season.

(*c*) *Srinagar.*—Light snowfall occurred on three occasions in September on the neighbouring mountains, and was below normal.

(*d*) *Gulmarg.*—There were four light to moderate falls of snow in September on the Handibal and Afarwat ranges. Snowfall of the season was above the average.

(*e*) *Kargil.*—Two falls of snow occurred on the high peaks in September.

IV.—Punjab.

Kilba (*Simla District*).—Occasional falls were witnessed on the higher peaks in the latter part of September, the snowline descending to the level of 13,000 ft. The falls were below the average. There was very little snow left on the passes at the end of the season and hence they were all open to traffic.

V.—United Provinces.

Almora.—The following table gives the estimated total amount of falls for each month:—

	August.	September.
	Ft.	Ft.
Chaudans	7	9
Malla Johar	3	3
Malla Danpur	..	8

The total snowfall for the season was above the average. The accumulations of snow were deeper than usual at the end of either month.

The Retreating Monsoon Period, October to December.

I.—Afghanistan.

Kabul.—The first snowfall of the season, which was slight, was observed on the Paghman hills on the 26th November. This was followed by three slight falls during the first week of December. Between the 11th and 14th December snow fell continuously at Kabul to a depth of 0'6" and to a depth of a few feet on all the surrounding hills. The falls were considerably above normal.

Accumulations of snow on the peaks at a height of 7,000 ft. were reported to be about 3 ft. deep.

II.—Baluchistan.

Quetta.—Light snowfalls were observed on the high peaks early in December. Accumulations on the high peaks were reported to be a little more than half a foot about the middle of the month.

III.—North-West Frontier Province.

(*a*) *Hazara.*—No report was received for October and November; presumably the winter snowfall began only in early December. The following table gives the estimated depth of falls during December and the accumulations at the end of the month :—

Locality.	Falls.	Accumulations.
	Ft.	Ft.
Narang	7	3½
Pludran	6	3
Kagan	5	2
Jared	1	..
Malakandi	1	⅛
Sundigali	3	¾
Thandiani	5	1
Dungagali	5	4
Birangali	3	..

The falls of the season were reported to be normal.

(*b*) *Dir, Swat and Chitral.*—At Drosh two falls were observed in November and three in December. The falls were confined to the high peaks.

(*c*) *Kurram.*—Snow fell at Parachinar and on the surrounding hills on the 24th December. The accumulations at the end of the season on the peaks of the Safed Koh were below normal.

(*d*) *Kohat.*—Fort Lockhart received 0' 7" of snowfall in December.

(*e*) *Waziristan.*—No report was received from North Waziristan. In South Waziristan snow fell in December somewhat earlier than usual; it was reported that snow was lying thick on peaks above 8,000 ft. towards the close of the month.

IV.—Kashmir.

(*a*) *Skardu.*—Snow fell on all the surrounding mountains on two days in each of the months October and November, and on 11 days in December. The snowline descended as the season advanced and reached 7,500 ft. in December. The depths of snow at the end of the period were estimated to be about 0'4" at a height of 8,000 ft., and about 5 feet on the high peaks.

(*b*) *Dras.*—Three falls of snow were observed in each of the months October and November, and six falls in December. The falls were below the average. On the Zojila and Mushkoo passes the accumulations at the end of the season were estimated to be about 7 ft.

(*c*) *Srinagar.*—Several light to moderate falls of snow occurred on the surrounding mountains during all months of the period. Light falls were witnessed in the main valley after the middle of December. The falls were above normal in December. Accumulations at the end of the period were however normal.

(*d*) *Gulmarg.*—Information was received only in respect of the first half of October, when it was reported that no snowfall was noticed on the Afarwat range.

(*e*) *Kargil.*—Very light snowfall is reported during October. Snow fell on three days in November and on eight days in December. Accumulations at the end of the period on the high peaks were estimated to be 2 ft. deep. Both the falls and accumulations of the season were below normal.

(*f*) *Leh.*—Fairly large accumulations of snow were visible on the high peaks at the end of December and the passes to the north were closed.

(*g*) *Sonamarg.*—There was slight snowfall in November. In December there were very frequent falls, the accumulations on high peaks at the end of the month being about 7 ft.

V.—Punjab.

(*a*) *Kulu* (*Kangra District*).—No snow fell in October and November, 3 or 4 falls occurred in the first half of December on the higher peaks. The snowfall of the season was above normal. The depths of the accumulations were estimated to be about 9 ft. on the Hampta pass and about 3 ft. on the Bashleo and Jalori passes, which were open to traffic.

(*b*) *Chamba.*—Snow fell on seven days in December, the total amount was about 3'9". The accumulations at elevations of 15,000 to 16,000 ft. were about 3 ft. deep at the end of the month. The snowfall of the season was normal, but the accumulations were below normal.

(*c*) *Kilba* (*Simla District*).—There were three heavy falls of snow on elevations above 12,500 ft. in October and one fairly good fall on elevations above 12,000 ft. in November. There were 15 falls in December and nine of these at places as low as 6,000 ft. in altitude. The falls were below the average in October and November, and above it in December. At the end of December the Rupan and Bruan passes were closed to traffic. The depth of

accumulations of snow on these passes was reported to have been 12 ft.

VI.—United Provinces.

(*a*) *Almora.*—The total depths of falls in each of the months October to December are given below :—

Locality.	October.	November.	December.
	Ft.	Ft.	Ft.
Malla Darma . . .	9	3	9
Malla Danpur . . .	..	9	11
Chaudans	6	2	8
Malla Johar . . .	..	1	6
Byans	..	..	8

Snowfall was generally below normal in October and November and above it in December. The accumulations at the passes appear to have been about normal.

(*b*) *Garhwal.*—Snow fell in December only and on nine days, but mostly at high altitudes ; the total amount was about 4'6".

VII.—Assam.

(*a*) *Kamrup.*—There was no snowfall on the Tasigong route while there was a little snowfall on the Poonakha route in the months October to December. The snowfall for the season was slightly above the average.

(*b*) *Sadiya Frontier Tract.*—The first fall of the season was observed on the Minyong Abor Hills on the 7th November and was followed by two other heavy falls during the period. There was also intermittent snowfall above a height of 9,000 ft. in the Mishmi Hills. The falls were above normal in the Abor Hills and below it in the Mishmi Hills. The accumulations at the end of the season were slightly below the average.

Summary.

Cold Weather period, January and February.—Falls and accumulations were generally above the average in Baluchistan, the North-West Frontier Province, Kashmir and the Punjab hills. In the United Provinces, however, *viz.*, in the vicinity of the Kumaon hills—, and in Assam, they were below average.

Hot Weather period, March to May.—Falls were generally above the average throughout the western Himalayas in March. Accumulations at the end of May were slightly below normal.

Southwest monsoon period, June and July.—There were a few isolated falls of snow on peaks above a height of 11,000 ft. The accumulations, however, were slightly below the average.

Southwest monsoon period, August and September.—Snowfall was above normal in the United Provinces and below it in Kashmir and the Punjab. Elsewhere there was hardly any snow. The accumulations at the end of the period were generally below normal, except in the United Provinces where they were above the average.

Retreating monsoon period, October to December.—In the western Himalayas snowfall was in defect in October and November, and in moderate excess in December. Accumulations at the end of December were generally above average except in Assam where they were slightly below normal.

S. R. Savur,
Meteorologist, Poona.

MGIPC—M—VIII-3-9—24-8-37—290.

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GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1936.

ANNUAL SUMMARY

PART C

STORMS AND DEPRESSIONS

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INDIA WEATHER REVIEW, 1936.

ANNUAL SUMMARY.

PART C.

STORMS AND DEPRESSIONS.

DEPRESSIONS AND CYCLONIC STORMS.

During the year 5 storms and 9 depressions formed in the Bay of Bengal, 1 storm and 1 depression in the Arabian Sea and 1 depression over the United Provinces. The dates on which the storms occured and the greatest barometric depths observed are summarised in the table below :—

Locality.	Month.	Date.	Greatest observed barometric depth.
Bay of Bengal . .	April . .	21st—26th	0·60″
Bay of Bengal . .	May . .	22nd—29th	1·00″
Bay of Bengal . .	June . .	10th—17th	0·40″
Arabian Sea . .	June—July .	28th June—4th July.	0·26″
Bay of Bengal . .	September—October.	29th September—7th October.	0·80″
Bay of Bengal . .	October .	25th—31st	0·50″

The detailed descriptions of these storms and depressions are, as usual, followed by a list of western disturbances of the year, of the more important local storms, and of the localities in which winds of force 9 or more were experienced by ships in the Indian Seas.

1. Severe Storm of 21st to 26th April 1936 in the Bay of Bengal.—The isobaric chart of the 21st morning indicated a low pressure area in the neighbourhood of the Nicobar Islands. Weather logs of ships of the date suggested that a temporary advance of the southwest monsoon was occurring to the south of Lat. 8°N. with considerable force. *S. S. Graciasa* and *S.S. Atlantic Maru* which were near Lat. 6½°N. and Long. 91°E. on the morning of the 21st experienced strong S or SW-ly breeze with rough seas and rainy and squally weather. The upper winds over Port Blair were ESE-ly 5 to 7 B. S. and over Victoria Point SE to SSE 5 B. S. between 1 and 2 km. Car Nicobar had then E-ly breeze of force 4 and had registered a rainfall of 1½″ at 8 hrs. of the 21st, suggesting that conditions had become unsettled in the southeast Bay by the morning of the 21st with central region near Lat. 8½°N. and Long. 92°E.

By the 8 hrs. of the 22nd the unsettled conditions had developed into a depression with central region near Lat. 9½°N. and Long. 90°E. *S. S. Atlantic Maru, S. S. Graciasa* and a number of other ships near Lat. 6½°N. and Long. 89°E. continued to experience strong SW-ly breeze with rough seas and squally weather between the 21st and 22nd. The log of *S. S. Begum*, bound for Tuticorin from Bassein (Burma), which passed at a distance of less than 60 miles from the centre of the disturbance in the evening of 22nd is very interesting in this connection and is given below :—

S. S. Begum.

Date.	Hr. of obsn.	Position.		Wind.		Bar.	Sea.	Swell.	Remarks.
		Lat. N	Long. E.	Dir.	For.				
		° ′	° ′			″			
22nd April .	13	12 12	89 17	ENE	6	29·55	Rough .	Heavy swell .	Rain from 12-30 P.M.
	14	12 06	89 10	NE E	6	29·50	Very rough	Heavy swell .	

Date.	Hr. of obsn.	Position.		Wind.		Bar.	Sea.	Swell.	Remarks.
		Lat. N.	Long. E.	Dir.	For.				
		° ′	° ′			″			
22nd April—*contd.*	15	12 00	89 03	NE	7	29·44	High	Heavy swell, long.	Violent squalls from 2-30 P.M.
	16	11 55	88 56	NNE	8	29·35	Very high	Heavy swell, long.	Violent squalls, Torrential rain.
	17	11 48	88 49	N	10	29·31	Very high	Heavy swell, long.	
	18	11 43	88 42	N/W	9	29·35	Very high	Heavy swell, long.	
	19	11 37	88 35	NW	9	29·38	Very high	Heavy swell, long.	
	20	11 32	88 28	NW	10	29·45	Very high	Heavy swell, long.	Continuous fierce squalls.
	21	11 24	88 24	WNW	10	29·53	Very high	Heavy swell, long.	Torrential rain.
	22	11 16	88 21	WNW	9	29·61	High	Heavy swell, long.	
	23	11 08	88 18	WNW	8	29·66	Very rough	Heavy swell, long.	Squalls less frequent.
	24	11 00	88 14	WNW	7	29·64	Very rough	Heavy swell, long.	Wind and sea abating.
23rd April	1	10 52	88 09	WNW	7	29·67	Very rough	Heavy swell, long.	Continuous heavy rain.
		10 44	88 04	WNW	7	29·65	Very rough	Heavy swell, long.	Occasional squalls.
	3	10 36	88 00	WNW	6	29·66	Very rough	Heavy swell, long.	
	4	10 29	87 56	W	6	29·66	Rough	Heavy swell, long.	Drizzle.
	5	10 22	87 51	WSW	6	29·64	Rough	Heavy swell, average length.	Weather cleared.

It will be seen from the above log that the ship experienced winds of force 8 to 10 continuously between 16 hrs. and 23 hrs. with violent squalls and heavy rain. This shows that the depression intensified rapidly into a storm of severe intensity, but of small extent, by the evening of the 22nd with its central region at 17 hrs. near Lat. 11°N. and Long. 89°E. and the lowest pressure recorded by the ship's barometer at 17 hrs. was 29·31″ (corrected).

The above conclusions are supported by the observations given below recorded on board *S. S. Yoma* which also passed within about 60 miles of the centre of the storm between 20 hrs. and midnight experiencing winds of force 8 to 10.

It is also reported that the wireless aerial of the ship was carried away by the storm at 1905 I. S. T. on that date. The lowest barometer recorded by this ship was 29·32″ (corrected) at 21 hrs. According to both these ships the pressure deficiency at the centre of the storm was of the order of 0·50″.

S. S. Yoma.

Date.	Hour of observation.	Position.		Bar.	Wind.		Sea.	Swell.
		Lat. N.	Long. E.		Dir.	For.		
		° ′	° ′	″				
22nd April .	1130	12 28	90 31	29·66	E/S	4-5	Moderate to rough . .	Low swell, long.
	1600			29·50	E	6		
	1800	12 14	89 23	29·30	E	7	High	Confused swell.
	2000			29·37	E	8		
	2100			29·32	NNE	9		
	2330	12 05	88 20	29·52	NW	10	Very High	Confused swell.

The following remarks contained in the log of this ship are also very interesting :—"During the forenoon watch on this date the sky became overcast and frequent rainsqualls were experienced. The wind remained steady SE/E force 4. The barometer reading at 8 A.M. was 29·77″. D. R. position at noon, Lat. 12°28′N. True course S55W. About 1 P.M. the wind started backing slowly and increasing in force, and the sea became very rough with a heavy swell from SSE. The lowest barometer reading was recorded at 9 P.M. when the corrected reading was 29·32″. At 9-30 P.M. the barometer started to rise, at first rapidly and later, slowly. The wind at this time was NNE force 9 and at midnight had backed further to NW and increased to force 10, with a high sea and heavy swell. Violent squalls and continuous heavy rain made visibility very poor. At midnight the barometer had risen to 29·52″ and position by D. R. was Lat. 12°05′N., Long. 88°20′E. Courses were altered to southward as wind changed and by midnight vessel was steering S40W. From then onwards, the barometer continued to rise and the wind continued backing but decreasing in force, until at 6 A.M. on 23rd April in D. R. Lat. 11°15′N., Long. 87°40′E. the wind remained steady at SW/W force 4 and the sea and swell were moderate."

The storm then began to move in a more northerly direction and by the 8 hrs. of the 23rd it was centred near Lat. 12½°N. and Long. 89°E. *S. S. Jalatarang* which was then about 100 miles to the southeast of the centre experienced high seas, southeasterly heavy swell and fresh gale from the SW or SE accompained by heavy rainsqualls.

At 8 hrs. of the following day the cyclone was centred near Lat. 14°N. and Long. 89°E. The severe storm was then moving in a northeasterly direction towards the Arakan Coast and at 2 hrs. of the 25th the cyclone was centred near Lat. 15½°N. and Long. 90½°E. Diamond Island was then experiencing continuous strong gale with occasional hurricane squalls, suggesting that the intensity of the cyclone was unabated. At 8 hrs. of the 25th the cyclone had its centre near Lat. 16½°N. and Long. 91½°E. *S. S. Aletta* and *S. S. Deido* which were then within 100 miles of the cyclonic centre experienced rough seas, heavy swell and moderate gale with occasional heavy rainsqualls.

Continuing to move in the northeasterly direction without diminution in intensity the storm was centred over Cheduba Island between 8 hrs. and 11 hrs. of the 26th when it had a barometric depth of the order of 0·60″. Kyaukpyu and Sandoway each of which lay about 50 miles on either sides of the cyclonic centre experienced at the time continuous strong or whole gale (force 9 to 10) for 2 to 3 hours. The cyclone crossed the coast about the midday of the 26th and dissipated rather quickly after passing inland.

A harrowing tale of loss of life and property came from the districts which the storm struck, the Sandoway and Kyaukpyu districts suffering very heavily. The main telegraph line from Rangoon to Calcutta was severely damaged in the Prome—Taungup section. In villages on the coast, most houses were demolished either by the tidal wave or the strong wind. The stone pier of Andrew Bay Harbour at Sandoway was practically demolished. Some steam-launches, including *S. S. Trokpwa*, a mail-launch, were reported to have been beached. The following account of the damage is taken from an appeal for relief issued by the Commissioner of Arakan Division and President of the South Arakan Cyclone Relief Committee :—

"The storm of April 26 was unprecedented in its severity. Its centre crossed the coast, by way of Cheduba Island, where Sandoway and Kyaukpyu Districts meet, causing enormous havoc throughout the 40-mile width of its track. The pressure of the wind, helped by the rising tide, caused a tidal wave which reached the very foot hills of the main coastal range. Where it crossed the coast-line, the height of the wave was 16 feet above ordinary high-water-mark and all the flat low lying islands were submerged to a depth of 12 feet or more. In such places, the villagers and their cattle had little chance of escape and were trapped and drowned in scores. So strong was the wind that every tree in the region was stripped of all its leaves and palm trees were snapped in half. Even the strongest swimmers were beaten down and drowned. On higher land, houses and the granaries were swept away by the wind like straw and

the torrential rain destroyed all the grain which the villagers had stored for their own consumption until next harvest in December, as well as the grain required for sowing at the present season. Cattle were panic-stricken and great numbers were drowned by rushing headlong into the swollen creeks.

Altogether over 1,000 people were drowned or killed by falling trees and 30,000 homesteads destroyed with all their contents. About 8,000 head of cattle were lost and some thousands of acres of rice fields were damaged by salt water. Numbers of fishing craft were destroyed and wells made unfit for use."

2. *Severe Storm of 22nd to 29th May 1936 in the Bay of Bengal.*—The first signs of the advance of the southwest monsoon in the southwest Bay of Bengal were noticed on the 19th morning when observatories in Ceylon reported general moderate to heavy rain with 9″ at Colombo. During the next two days this advance was maintained and on the 21st the monsoon had extended to the Andaman Sea when upper winds of Port Blair up to 2 km. (limit of P. B. ascent) were all from a SW-ly direction of force 6-7 B. S. With the strengthening of the monsoon in the south Bay conditions became unsettled on the 22nd morning in the southwest Bay and neighourhood. By the afternoon of the same day these unsettled conditions concentrated into a depression with centre near latitude 12½°N., longitude 83°E. The depression moved in a northeasterly direction and at 8 hrs. of the 23rd May, was centred near latitude 14½°N., longitude 84½°E. The depression continued to move in a northeasterly direction without any further intensification and on the 24th morning lay with its central region near latitude 17°N., longitute 87°E. In the course of the next 24 hours the depression moved in a more northerly direction and was centred on the 25th morning near latitude 18½°N., longitude 87½°E. By about 10 hrs. of the 26th the depression intensified into a storm centred near Lat. 19½°N., Long. 87½°E. Strong winds and rough seas were experienced by the ships to the south and east of the storm. *S. S. Winkfield* and *S. S. Khosru* which were within 100 and 200 miles respectively to the south of the storm reported SW-ly winds of force 8 B. S. at 0930 and 1030 I. S. T. respectively. According to the barometer readings of *S. S. Winkfield* the pressure deficiency at the centre of the disturbance at this time was of the order of 0·50″

The storm then began to move northnortheastwards and passed near the Sandheads on the early morning of the 27th, when it was of severe intensity, if one judges from the observations recorded at the Sandheads where SSE-ly winds of force 9 from midnight changing to S-ly at about 0400 hrs. of the 27th. At about 0600 hours the barometer fell to its lowest reading of 29·04″ and the wind spun round to SSW, SW and WSW force 11. Precipitious sea, very heavy swell and winds continued almost throughout the day. At 8 hrs. of the 27th the severe storm was centred near Saugor Island and passed over the station between 10 hrs. and 12 hrs. in the noon. The highest wind recorded at Saugor Island was of 52 miles per hour in a gust from WSW. The pressure deficiency at this time at the centre of the disturbance was of the order of 1·0″. In this connection extracts from the report of the Commander of the River Survey Vessel "*Guide*" belonging to the Port Commissioners of Calcutta, which was anchored in the Karapara creek at a distance of 17 miles to the north by east of Saugor Island Light House, and the log of the vessel are very interesting and are given below :—

" On the 26th, the sky was completely overcast with low-lying heavy oily coluds, which moved rapidly in a westerly direction. Throughout the day the wind blew from an E-ly direction, varying between ENE and E/S, accompanied by frequent rainsqualls.

The 27th dawned with similar signs, but more pronounced. The wind was still from the eastward, but increasing in force, and the squalls heavier and more frequent. At noon, however, the wind was noticed to abate, and at about 1300 hrs, it was practically calm, although the wind was noticed to veer from ENE through E and S to SW. At about 1430 hrs., it suddenly strengthened and blew from the westward, rapidly increasing to force 12 by about 1445 hrs. The rainfall during the calm period was slight, but a heavier driving rain was experienced with the increase of the wind. This strong blow from the westward continued for nearly four hours, accompained by spells of heavy rainfall. Finally at about 2000 hrs. the wind abated and moved round to WSW.

The lowest pressure recorded was 28·91″ at 1400 hrs. on the 27th, and the strongest blow was experienced at 1445 hrs, when the force was quite 70 miles per hour."

R. S. V. Guide.

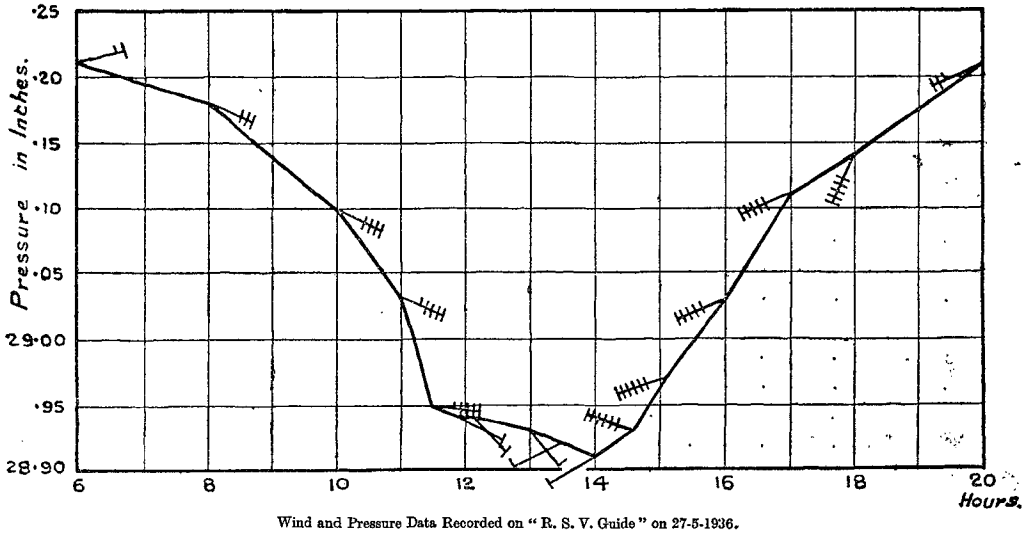
Date.	Hr. of obsn.	Wind.		Remarks.	Bar.*	Thermometer.
		Dir.	For.			
					″	°F
27th May	0600	E/N	3	Squally	29·21	83
	0800	E/S	5—6	Do.	29·18	83
	1000	E/S	7—8	Do.	29·10	83
	1100	E S	8—9	Do.	29·03	83
	1130	E S	8—9	Do.	28·95	83
	1155	ESE	2	Drizzle	28 94	83
	1205	SE	2	Drizzle	28·94	83
	1300	SE	1	——	28·93	83
	1330	WSW	1	Drizzle	28·92	84
	1400	SW/W	2	Drizzle	28·91	84
	1445	WNW	12	Rain	28·93	84

R. S. V. Guide—contd.

Date.	Hr. of obsn.	Wind. Dir.	Wind. For.	Remarks.	Bar.*	Thermometer.
					"	° F
27th May—*contd* . . .	1505	W S	11—12	Rain	28·97	84
	1600	W/S	9—10	Squally	29·03	84
	1700	W/S	9—10	Squally	29·11	84
	1800	SW/S	9—10	Squally	29·14	84
	2000	WSW	4–5	Squally	29·21	82

* The Barometer readings were observed with a compensated aneroid, with corrections applied.

The Pressure and wind data in the above log have also been plotted against time in the diagram below. It is interesting



Wind and Pressure Data Recorded on "R. S. V. Guide" on 27-5-1936.

to note from the above that the wind which was blowing from E/S with force 8—9 B. S. at 11-30 hrs. suddenly died down to force 2 from ESE at 11-55 hrs. It was from SE of force 1 only at 1300 hrs. and shifted round to WSW force 1 at 1330 and of force 2 B. S. from SW/W at 1400 hrs. Then it rose again suddenly to force 12 B. S. from WNW at 1445 hrs. The barometer readings also are very interesting and show that the barometer fell rapidly between 0600 and 1130 hrs. from 29·21" to 28·95" and then slowly to the lowest value of 28·91" at about 1400 hrs. The pressure deficiency at this time at the centre of the disturbance was of the order of 1·00". From 1445 hrs. the pressure rose again rapidly up to 2000 hrs.

The above facts show clearly that while crossing the coast by the midday of the 27th the severe storm had a clam centre in its core, the diameter of which was about 15 to 20 miles.

Thereafter while moving in a northeasterly direction the severe storm weakened and filled up near Mymensingh by the early morning of the 29th.

Under the influence of this disturbance, the monsoon established itself in Burma and northeast India and fairly widespread thunderstorm-rain also occurred in the central parts of the country and the north Madras coast between the 22nd and 26th of the month. Rainfall was very heavy in East Bengal and Assam, Cherrapunji recording 21" and Shillong 15" on the 29th morning, as a result of which severe floods occurred in the Brahmaputra and other rivers of Assam. Many of these overflowed their banks and are reported to have carried off hundreds of cattle and to have rendered a number of families homeless. Some of the notable falls of 5" and above are given in the table below. Heavy landslips occurred on the Darjeeling-Himalayan Railway. Telegraphic and telephonic communications were seriously dislocated, the worst disturbance being on the Calcutta-Rangoon section both *via* Arakan and Assam. Great damage to crops and property was experienced in East Bengal and Assam. In Tura, the headquarters of the Garo Hills Districts, nearly every building is said to have been damaged owing to incessant and heavy rain accompanied with fierce gales. Lowlying areas in a number of towns were inundated.

Several boats were lost in the rivers and it is reported that, were it not for the timely warnings given through the Port Commissioners and the Police, the toll would have been much greater.

Station.	27th.	28th.	29th.	30th.	31st.
	"	"	"	"	"
Bengal.					
Diamond Harbour	..	7	..	..	..
Canning Town	..	8	..	..	..
Kalaroa	6	..	..	..	..
Tamluk	8	..	..	..	..
Kukrahuli	8	..	..	..	..
Munshiganj (Dacca)	..	8	..	..	..
Kapasia	..	..	6	..	..
Kishorganj	..	6	..	..	..
Netrokona	..	6	..	..	..
Durgapur	..	7	..	..	..
Patuakhali (Backerganj)	..	9	..	..	..
Pirojpur	..	7	..	..	..
Barisal	..	7	..	..	..
Bhola	..	8	..	..	..
Daulatkhan	..	12	..	..	..
Chittagong	..	..	6	..	..
Comilla	..	14	..	..	..
Brahmanbaria	..	7	..	..	..
Ramchandrapur	..	6	..	..	..
Noakhali	..	11	..	..	..
Lakshmipur	..	10	..	..	..
Rangamati	..	..	7	..	..
Barkal	..	..	8	..	..
Lama	..	6	..	..	..
Kaptai	..	8	..	..	..
Agartala	7	..	..	..	..
Assam.					
Kampur	..	..	7	..	..
Lanka	..	6	..	..	..
Lumding	..	..	7	..	..
Lallakhal	..	..	6	..	..
Karimganj	..	..	6	..	..
Samanbagh	..	6	..	..	5
Habiganj	..	8	..	..	..

Station.	27th.	28th.	29th.	30th.	31st.
	"	"	"	"	"
Baikunthpur	7	..	..	..	..
Sunamganj	..	7	6	..	..
Bikrampur	..	..	..	7	..
Tura	..	5	..	7	..
Dalu	..	..	6	..	..
Shillong	..	6	15	..	..
Upper Shillong	..	7	13	..	..
Mawphlang	..	9	19	..	..
Cherrapunji (Police Station)	..	10	23	..	..
Cherrapunji (Welsh Mission House)	15	25	..	..	..
Jowai	..	7	11	..	..
Haflong	..	..	6	..	..
Jatinga Valley	..	8	..	8	5
Harangajao	..	8	..	..	..
Maibang	..	..	6	..	..
Henima	..	..	6	..	..
Tamenglong	..	6	..	..	..
Kaugpokpi	..	..	8	..	..
Sialsuk	..	..	12	..	..
Longleh	..	..	8	..	..
Sherkawn	..	..	7	..	..
Demagiri	..	8	..	..	..

3. *Storm of 10th to 17th June 1936 in the Bay of Bengal.*— A strengthening of the monsoon occurred in the Bay of Bengal on the 8th June. On the morning of the 9th a distinct fall of pressure was noticed in the Bay extending from the Arakan to the Orissa coast when widespread moderate to heavy rain had fallen along the Arakan coast. The upper winds over Calcutta and Chittagong indicated the presence of a cyclonic circulation in the north Bay at levels between 1 and 3 km.

Further fall of pressure in the Bay extending from the Arakan coast to the Circars coast continued till the morning of the 10th. This and observations of the Sandheads and of the following ships indicated that conditions became markedly unsettled in the north Bay :—

Date.	Hr. of obsn.	Name of ship or station.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
10th June	0630	Sandheads	...	...	NW	3	Slight.	Mod.	
10th June	"	*S. S. Akbar*	19·2	87·3	SW	3	"	Mod. from SW.	Drizzle in last hour.
10th June	0800	*S. S. Akbar*	18·5	87·1	W	2	"	"	Shower.
10th June	"	*S. S. Aronda*	19·5	89·1	S	2	"	"	

A shift of the upper winds over Chittagong, Calcutta and Vizagapatam on the 10th morning also showed a cyclonic circulation in the north and central Bay.

By the morning of the 11th June a depression formed in the north Bay with central region within half a degree of Lat. 20°N. and Long. 89°E. The following ships' observations are significant in this connection :—

Date	Hr. of obsn.	Name of Ship.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
11th June	0530	*S. S. Bahadur*	18·8	89·8	SW	2	Slight.	Mod. from SW.	Continuous heavy rain.
11th June	0830	*S. S. Isipingo*	18·3	91·3	SSW	6	Rough.	Heavy from SW.	Continuous rain.
11th June	0630	*S. S. Taptee*	20·2	89·3	SE	2	Slight.	Low from SW.	
11th June	0630	*S. S. Ellenga*	20·4	88·5	ENE	3	,,	Mod. from SW.	
11th June	0800	,,	20·4	88·3	NE	3	Mod.	Mod. from S.	Rainsqualls.
11th June	0630	*S. S. City of Glasgow*	20·2	87·8	NNE	2	Slight.	Heavy from S.	
11th June	0630	*S. S. Bankura*	19·0	86·7	NW	6	Rough.	Mod. from SW.	Continuous rain.

By the evening of the 11th pressure fell rapidly in the northwest Bay and the depression deepened without appreciable movement. The following ships in the southeastern quadrant of the disturbance reported high winds and rough seas in the afternoon :—

Date.	Hr. of obsn.	Name of ship.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
11th June	1530	*S. S. Bahadur*	17·6	90·5	SSW	6	Very rough	Heavy from SW.	Squally.
11th June	1730	,,	17·4	90·6	S	7	,,	,,	,,
11th June	,,	*S. S. Santhia*	17·7	92·9	S	4	Rough	Heavy from S.	
11th June	1530	*S. S. Isipingo*	17·3	92·7	SSW	6	Confused	Heavy from SW.	

By the morning of the 12th the deep depression intensified into a storm of moderate intensity and moving northwestwards was centred at 8 hours near Lat. 20½°N., Long. 88°E. Continuing to move in a northwesterly direction it was centred at 19 hours about 80 miles to the southeast of Balasore.

Deepening further as it approached the coast the storm passed inland by the morning of the 13th and at 8 hours it lay near Balasore, when it recorded a pressure deficiency of 0·40″.

The storm then weakened into a depression and for the next four days it moved first in a westerly direction and then in a northwesterly direction over Orissa and the Central Provinces and was centred over west Central India on the 17th morning and filled up thereafter.

Under the influence of this disturbance the monsoon established itself in the Central Provinces and extended into the east United Provinces, west Central India, Gujarat and north Hyderabad. Locally heavy rain occurred in Orissa between the 9th and 14th and in the Central Provinces

between the 14th and 16th and as a result serious breaches occurred in the Bengal Nagpur Railway lines passing through Orissa.

Some of the noteworthy falls of 6″ and above recorded at 8 hours on different days during the period of the activity of the storm are given below :—

District.	Station.	13th.	14th.	15th.	16th.
		"	"	"	"
Balasore	Chandbali	6	..	..	..
Feudatory State	Kanker	..	..	7	..
Raipur	Simga	..	7	..	..
Raipur	Deobhog	..	7	..	..
Drug	Adamabad	..	..	7	..
Drug	Bhilai	..	..	6	..
Drug	Ambagarh Chowki	..	..	..	6
Raipur	Dhamtari	..	..	6	..
Raipur	Gariaband	..	..	7	..
Raipur	Arang	..	..	6	..
Raipur	Rajim	..	..	6	..
Raipur	Mahasamund	..	..	7	..
Raipur	Pindraon	..	..	6	..
Raipur	Maramsilli	..	..	6	..
Raipur	Gattasilli	..	..	6	..
Raipur	Chhati	..	..	6	..
Raipur	Kondapar	..	..	6	..
Raipur	Kendri	..	..	6	..
Raipur	Kumhari	..	..	11	..

4. *Depression of 23rd to 28th June 1936 in the Bay of Bengal.*—After a temporary weakening, the monsoon strengthened in the south and central Bay between the 21st and 23rd June and on the morning of the latter date the pressure gradient in the south and central Bay was fairly steep while there was an area of uniform pressure in the northwest Bay. On the 24th morning the isobaric chart showed a trough of low pressure off the Orissa-Ganjam coast. The pilot balloon ascents at stations round the north and central Bay also showed a cyclonic circulation up to a height of at least 4 km. The above facts and the following observations indicated that conditions were favourable for the formation of a depression in that region :—

Date.	Hr. of Obsn.	Name of Ship or Station.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
24th June	0800	Sandheads	..	..	SE	2	Smooth.	Low.	..
24th June	0800	Saugor Island	..	..	ENE	3	Slight.	Low.	..
24th June	0800	Puri	..	..	NNW	2	Smooth.	Low.	..
24th June	0630	*S. S. Binfield*	14·4	88·6	SW	5	Mod.	Mod. from SW.	Rain.
24th June	0800	*S. S. Lisbon Maru*	18·2	91·2	S	7	High.	..	..
24th June	0630	*S. S. Aronda*	19·3	89·7	S	5	Mod.	Mod. from S.	..
24th June	0800	*S. S. Jalarana*	20·1	89·4	ESE	4	Mod.	Mod. from ESE.	..

By the morning of the 25th a shallow depression formed in the northwest angle of the Bay. A noteworthy feature of this depression was that during its process of formation the pressure round the north and central Bay was rising during the 24th and up to the morning of the 25th, and it was not until the evening of the 25th that the fall of pressure was noticed in Orissa-Ganjam and Bengal coasts. This indicated that the depression was of small extent and probably shallow. The shallow depression remained practically stationary in the northwest angle of the Bay centred between Chandbali and the Sandheads till the morning of the 27th, when it deepened. The depression crossed the coast near Balasore by the early hours of the 28th. Thereafter it became unimportant.

Under the influence of this depression the monsoon strengthened in Orissa and Lower Burma, Sambalpur recording the heavy rainfall of 9″ in 24 hours ending at 8 hours on the 27th.

5. *Storm of 28th June to 4th July 1936 in the Arabian Sea.*—On the morning of the 26th June the pressure over east Gujarat, west Central India and the north Deccan began to fall rapidly and by the next morning it extended to the west Central Provinces and there was a concentrated pressure departure over this region of the order of 0·23″. The pressure continued to fall during the next 24 hours and on the morning of the 28th a depression appeared over the west Central Provinces with a barometric deficiency of about 0·26″. Moving northwestwards the depression was centred near Neemuch on the 29th morning. Thereafter it moved in a westerly direction and was centred near Deesa on the next morning. By the morning of the 1st July the depression deepened and was centred near Badin at 8 hours. It remained practically stationary for the rest of the day; but intensified further at the same time. By 17 hours it was probably a storm with its centre still near Badin. At this time the observatory at Dwarka and *S. S. Begum* which were within 200 miles to the south of the centre of the disturbance experienced winds from W and SW of forces 7 and 8 respectively with high or rough seas and heavy swell. The storm then slowly moved westwards and crossed the coast south of Karachi into the north Arabian Sea on the early morning of the 2nd and thereafter continuing to move in a westerly direction and, weakening at the same time, became unimportant over Oman by the 4th morning.

This disturbance was responsible for the strengthening of the monsoon generally in northwest India and its extension in Sind during the last week of June, and also for producing vigorous monsoon in Sind and Rajputana on the first two days of July.

Heavy falls of rain occurred in north-west India, 10″ of rain being recorded at Badin on the 1st July morning and 9″ at Delhi on the 28th June morning, the latter constituting a record for Delhi for 58 years. Some of the other noteworthy falls of 5″ and above are given below :—

Station.	June.			July.	
	28th.	29th.	30th.	1st.	2nd.
	″	″	″	″	″
Sehore (west Central India).	..	7	..	..	..
Narasingarh (west Central India).	..	..	..	5	..
Kotra (west Central India).	..	..	..	..	6
Bulsar (Gujarat) . .	..	8	..	..	..
Pardi (Gujarat) . .	..	7	..	..	..
Dharampur (Gujarat) .	..	9	..	..	..
Sachin (Gujarat) . .	6	..	..	..	..
Cambay (Gujarat) . .	8	..	..	..	..
Jati (Sind) . . .	..	..	..	6	..
Shahbandar (Sind) . .	..	..	..	6	8
Tando Bago (Sind) . .	..	..	..	8	..
Ghosabari (Sind) . .	..	..	..	5	..
Shahabad (Rajputana) .	..	..	..	..	5
Kishanganj (Rajputana) .	..	..	..	..	6

6. *Depression of 1st to 5th July 1936 in the Bay of Bengal.*—On the morning of the 30th June a low pressure wave was noticed moving from the east across Burma. The fall of pressure continued till the next morning when an area of marked negative pressure departure extending from the Arakan coast to the Circars coast was noticed. These facts and the morning observations of Saugor Island and those of the ships given below suggested that conditions were becoming unsettled in the north and central Bay where a depression might form :—

Date.	Hr of obsn.	Staion or ship.	Position.		Wind.		Sea.	Swell.
			Lat. N.	Long. E.	Dir.	For.		
			°	°				
1st July .	0800	Saugor Island . . .	..	..	ENE	3	Smooth .	Low.
1st July .	0630	*S. S. Jalapalaka* . . .	20·3	87·4	NW	4	..	..
1st July .	0630	*S. S. Ellenga* . . .	19·3	89·8	SE	2	Slight .	Mod. from S.

The afternoon upper winds from Calcutta, Sambalpur and Vizagapatam also indicated an anticlockwise circulation over the north and central Bay up to a height of 2 km.

By the morning of the 2nd July a depression formed in the north Bay with central region near Lat. 20°N. and Long. 88°E. with strong monsoon in the south and central Bay.

During the course of the day, the depression moved in a northerly direction weakening as it approached the coast, and passed inland between Saugor Island and Balasore on the early morning of the 3rd and was centred at 8 hrs. over southwest Bengal. Then it moved in a northwesterly direction to Chota Nagpur where it persisted up to the 5th and became unimportant thereafter. In association with this depression the monsoon strengthened in northeast India, the central parts of the country and in the north of the Peninsula.

7. Land Depression of 7th to 11th July 1936.—On the morning of the 7th July, a land depression appeared over the United Provinces near Lucknow. During the next 48 hours, it slightly deepened and was centred to the southeast of Lucknow on the 9th morning. Thereafter it moved very slowly northwestwards and filled up near Bareilly by the morning of the 12th. It caused strong monsoon with locally heavy falls in the United Provinces and the east and north Punjab and helped to maintain its activity in northeast India during the above period.

8. Deep Depression of 20th to 29th July 1936 in the Bay of Bengal.—The northerly or northeasterly currents along Orissa coast showed by the observations from Balasore to Calingapatam on the morning of the 20th July and the following ships' observations indicated a cyclonic circulation off the Orissa Circars coast with strong monsoon in the Central Bay.

Date.	Hr. of obsn.	Ship.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
20th July .	0630	*S. S. Chyebassa*	16·5	85·8	WSW	5	Rough . .	Mod. from SW.	
20th July .	„	*S. S Chilka*	17·8	88·3	S	2	Slight . .	Mod. from S. .	
20th July .	0800	*S. S. Jalajyoti*	19·0	87·3	E	2	„ . .	„	
20th July .	0630	*S. S. Badarpur*	13·8	84·2	WSW	7	Rough . .	Heavy from W.	Continuous rain.
20th July .	„	*S. S. Jaladurga*	17·8	89·0	ESE	5	Mod. . .	Mod. from SW .	Rain.

By the morning of the 21st a depression formed with centre at 8 hrs. near Lat. 18½°N., Long. 87°E. The monsoon was strong to the south of the depression. The following ships' observations are significant in this connection.

Date.	Hr. of obsn.	Ship.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
21st July .	0630	*S. S. Rizwani*	15·0	85·3	W	6	Rough . .	Heavy from W.	
21st July .	0530	*S. S. Jalajyoti*	17·5	86·5	W	4	Mod. . .	Mod. from SW .	Rainsquall.
21st July .	0630	*S. S. Jalajyoti*	16·9	86·2	WSW	6	Rough . .	Heavy from SW.	Squall.
21st July .	0530	*S. S. Chyebassa*	14·5	85·2	WSW	6	High . .	Heavy from SE	Heavy squall in last 3 hours.
21st July .	0800	*S. S. Hamburg Maru*	18·3	91·4	S	5	Rough . .	Mod. from S. .	

The depression remained practically stationary during the next 24 hours but deepened.

It then moved slowly northwestwards and was centred at 8 hours on the 23rd near Lat. 19°N., Long. 86°E. The deep depression continued to move slowly in a northwesterly direction, weakening at the same time, and crossed the coast between Puri and Gopalpur by the early morning of the 24th. Travelling in a northwesterly direction over the east Central Provinces and the east United Provinces it lay near Lucknow on the morning of the 27th and filled up there after two days.

The depression was responsible for strong monsoon, with locally heavy falls, in the Orissa-Ganjam coast and in the central parts of the country and Hyderabad between the

21st and 24th and from Assam to the east Punjab between the 24th and 29th.

A few noteworthy falls of 5″ and above are given below :—

District.	Station.	23rd.	24th.	25th.	26th.	27th.	28th.	29th.
		″	″	″	″	″	″	″
Rampur	Rampur	..	5	..	..	..	..	..
Bastar	Jagdalpur	7	..	..	..	..	..	..
Patna	Bikram	..	..	..	..	6	..	..
Patna	Paliganj	..	..	..	6	..	..	..
Muzaffarpur	Katra	..	..	..	..	6	..	..
Darbhanga	Rosra	..	..	..	..	6	..	..
Darbhanga	Buchauli	..	..	..	..	5	..	..
Monghyr	Jamalpur	..	..	..	..	8	..	..
Budaun	Budaun	..	..	..	..	6	..	..
Fatehpur	Fatehpur	..	..	..	..	6	..	..
Moradabad	Moradabad	..	..	..	..	..	5	..
Nainital	Nainital	..	..	..	..	..	6	..
Nainital	Haldwani	..	..	..	..	..	..	5
Gonda	Gonda	..	..	..	..	..	5	..
Sitapur	Biswan	..	..	..	..	..	..	10

9. *Depression of 16th to 18th August 1936 in the Bay of Bengal.*—On the morning of the 15th August the monsoon strengthened in the south and central Bay producing widespread heavy rainfall along the Arakan coast. During the course of the next 24 hours the weather became unsettled in the north Bay with strong monsoon in the south and central Bay.

By the morning of the 17th an area of concentrated negative pressure departure appeared off the Orissa-Ganjam coast and a depression formed centred at 8 hours near Lat. 18½°N., Long. 87°E. The pilot balloon stations round the north Bay showed strong cyclonic circulation over the region up to a height of at least 3 km.

The depression moved northwards and on the morning of the 18th it was centred about 80 miles to the east of Puri and by the evening of the same day it crossed the Orissa coast near Chandbali. The depression filled up thereafter rapidly.

This disturbance activated the monsoon current and caused widespread and locally heavy rain in Orissa, the central parts of the country and the Peninsula.

The noteworthy amounts of rainfall were :—

District.	Station.	15th.	16th.	17th.	18th.	19th.
		″	″	″	″	″
Kalahandi	Bhawanipatna	..	5	..	..	..
Drug	Kharra	..	5	..	..	..
Raipur	Kumhari	..	7	..	..	..
Saugor	Damoh	..	..	..	..	5
Saugor	Hatta	..	..	..	..	5
Chanda	Bichhia	5	..	..	..	..
Chanda	Kunghari	..	5	..	..	..
Singhbhum	Jagannathpur	..	..	..	..	5

10. *Deep Depression of 25th August to 1st September 1936 in the Bay of Bengal.*—On the morning of the 24th August

the isobaric chart showed an extension of the seasonal trough of low pressure over the Gangetic plain up to the north Bay. During the course of next 24 hours weather became unsettled in the north Bay where a feeble anticlockwise circulation seemed to have been established.

By the morning of the 26th the unsettled conditions in the north Bay developed into a shallow depression centred at 8 hours near Lat. 19½°N., Long. 89°E. The depression remained practically stationary and deepened during the next 24 hours. Thereafter it moved slowly in a westerly direction and at 8 hours of the 28th it was centred near Lat. 18½°N., Long. 87°E.

By the 17 hours of the 28th the deep depression moved to about 150 miles east of Calingapatam and at 2 hours of the following morning it lay centred about 70 miles east of that port. The deep depression weakened as it moved towards the coast and was about to cross the coast near Calingapatam at 8 hours of the 29th.

By the morning of the 30th the depression lay over the east Central Provinces where it persisted till the following morning and thereafter while moving in a northerly direction it filled up over the Central Provinces by the 1st September.

In association with this depression, the monsoon was strong in lower Burma, Orissa, the north Madras coast, north Hyderabad and the central parts of the country.

Some noteworthy amounts of rainfall are given below :—

District.	Station.	26th.	27th.	28th.	29th.
		"	"	"	"
Hazaribagh	Dhanwar	..	5	..	..
Ranchi	Palkot	5	5	..	..
Drug	Khapari	..	..	..	5
"	Hargaham	..	..	..	5
Nandgaon	Rajnandgaon	..	..	..	6

11. *Depression of 5th to 9th September 1936 in the Bay of Bengal.*—The monsoon strengthened on the 3rd in Burma where widespread rain occurred on the 3rd and 4th with locally heavy falls in Arakan. On the 4th conditions became unsettled in the north Bay, which concentrated during the next 24 hours into a depression with central region near Lat. 19°N., Long. 89°E. The cyclonic circulation in the north Bay at this time extended up to 3 km. and above, the Port Blair winds being of force 9 and 10 (B. S.) at 1 and 1·5 km.

The depression moved northwestwards and lay with centre about 100 miles southeast of Chandbali on the morning of the 6th. Without further intensification it crossed the Orissa coast between Puri and Chandbali by the same afternoon and lay over Orissa and the east Central Provinces on the following morning. The shallow depression moved northwestwards till the 10th morning when it merged into the seasonal trough of low pressure over northwest India.

Under the influence of this depression the monsoon was strong in Orissa, the Central Provinces, Gujarat and northwest India generally.

Some of the noteworthy amounts of rainfall are given below :—

District.	Station.	5th.	6th.	7th.	8th.	9th.	10th.
		"	"	"	"	"	"
Gaya	Sherghati	..	..	..	..	..	11
Gaya	Barachati	..	..	..	..	..	17
Shahabad	Chenari	..	..	..	..	..	12
Darbhanga	Samastipur	..	..	..	..	..	5
Santhal Parganas	Sarawan	..	..	..	..	..	5
Hazaribagh	Hunterganj	..	..	..	..	..	9
Bhopal	Nasrulaganj	..	..	..	6	..	..
Malwa Agency	Rutlam	..	..	5	..	..	..
Drug	Bemetara	..	..	5	..	..	..
Raipur	Dhamtari	..	..	5	..	..	..
Raipur	Simga	..	5	..	..	..	..
Raipur	Gariakund	..	5	..	..	..	..
Raipur	Rudri	..	..	6	..	..	..
Raipur	Maramsilli	..	..	7	..	..	..
Raipur	Chhati	..	..	6	..	..	..
Raipur	Kummhari	..	..	5	..	..	..
Mandla	Mandla	..	..	..	..	..	6
Mandla	Bichhia	..	..	..	..	..	6
Chanda	Asola	..	..	..	5	..	..
Balaghat	Kattangshiri	..	..	..	..	..	5
Hoshangabad	Hoshangabad	..	5	..	..	..	..
Nimar	Mandhata	8	..	..	..	..	..
Akola	Akola	..	..	..	5	..	..
Akola	Balapur	..	..	..	5	..	..

12. *Severe Storm of 29th September to 7th October 1936 in the Bay of Bengal.*—On the morning of the 27th September the isobaric chart showed a trough of low pressure extending from the Andaman Sea to the Central Bay. Ships' observations indicated that an anticlockwise circulation was in the process of formation in this region, where conditions were unsettled. The following ships' observations are of interest :—

Date.	Hr. of Obsn.	Name of Ship.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
27th September.	0600	*S. S. Erinpura* . .	14·2	86·7	ENE	1	Smooth	Mod. from S.	
27th September.	0800	*S. S. Ethiopia* . .	15·0	90·5	E/S	3	Slight	Mod. from SW.	
27th September.	0800	*S. S. Masimpur* . .	14·5	88·1	Variable	..	..	Low from S.	
27th September.	0800	*S. S. Subadar* . .	13·0	85·8	WSW	3	Slight	Mod. from SSW.	Rain.
27th September.	0800	*S. S. Hareefield* . .	10·3	87·3	SW/W	5-6	Rough	Heavy from SW.	
27th September.	0800	*S. S. Hongsiang* . .	12·1	96·9	W/W	5	Rough	Mod.	Overcast, Rain, squall.

During the course of the next 24 hours the unsettled conditions became more marked and the trough of low pressure moved a little northwestwards and on the morning of the 28th extended from the north Andaman Sea to the Orissa-Circars coast. Ships' observations indicated that there existed two regions of cyclonic circulation within this trough, centred in the west Central Bay and in the east Central Bay near Table Island respectively. The following ships' observations are significant in this connection :—

Date.	Hr. of Obsn.	Name of Ship.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
28th September.	0800	*S. S Schonfils* . .	16·9	86·8	NE	4	..	..	
28th September.	0630	*S. S Begum* . . .	12·3	84·4	WNW	6	Rough	Mod. from S.	Rain.
28th September.	0630	*S. S. Subedar* . .	13·6	89·3	SSW	2	Slight	Mod. from SW.	
28th September.	0630	*S. S. Jala Durga* . .	17·7	88·6	E	4	Mod.	Confused from W.	
28th September.	0930	*S. S. Sirsa* . . .	14·7	93·8	SW	6	Rough	Heavy from SW.	Continuous rain.
28th September.	1030	*S. S. Jalapadma* . .	14·5	94·5	SW	6	Very rough	Heavy from SW.	Continuous rain.
28th September.	0800	*S. S. Masimpur* . .	15·5	91·8	ENE	3	Mod.	Low from SSW.	
28th September.	0930	*S. S. Masimpur* .	15·5	92·2	ENE	3	Mod.	Mod. from S.	

During the next 24 hours the two cyclonic circulations developed into depressions. These were centred on the morning of the 29th near Lat. 15°N., Long. 86°E. and over the mouth of the Irrawady, close to the coast. The observations of Rangoon, Bassein, Diamond Island and of *S. S. Ekma* are interesting in connection with the Irrawady depression.

Date.	Hr. of Obsn.	Name of Ship or Station.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
29th September.	0630	*S. S. Ekma* . . .	15·6	95·8	SW	5	Mod.	Heavy from SW.	Rain-squall.
29th September.	0800	Rangoon . . .	--	--	SSW	2	--	--	Drizzling.
29th September.	0800	Bassein . . .	--	--	ENE	3	--	--	Drizzle in last hour.
29th September.	0800	Diamond Island . .	..	--	NNW	2	Slight	Mod.	Raining.

This depression was of small extent. Without further intensification it moved northwards and by the evening of the 29th was centred near Tharrawady. Thereafter it weakened and travelling northwestwards overland became less marked at the surface by the next morning. The cyclonic whirl, however, persisted in the upper layer.

The other depression moved northwards and was centred on the morning of the 30th near Lat. 16°N., Long. 86°E. The following ships' observations on the 29th and 30th are of interest in this connection.

Date.	Hr. of Obsn	Name of Ship.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
29th September.	0800	*S. S. Khosrou* . .	15·6	85·9	ENE	4	Mod.	Confused	
29th September.	0930	*S. S. Begum* . .	15·9	86·5	S	3	Slight	Sl. from S.	
29th September.	0830	*S. S. Clan Graham* .	14·6	86·2	SW	4	--	Mod.	Rain-squall.
29th September.	0630	*S. S. Jaladuta* . .	14·5	85·2	W	4	Mod.	Mod. from S	Continuous rain.
30th September.	0800	*S. S. City of New Castle* .	14·3	85·5	W	6	Rough	Heavy from W.	Rain-squall.
30th September.	0930	*S. S. Begum* . .	18·7	87·2	ENE	6	Mod.	Mod. from SW.	Rain with squall.
30th September.	0630	*S. S. Khosrou* . .	13·9	84·9	WSW	4	Mod.	Heavy from SW.	Squally.

Thereafter being aided by the upper air circulation over the north Bay initiated by the first depression it began to move in a northeasterly direction and was centred at 8 hrs. on the 1st October near Lat. 17½° N., Long. 88° E. The following ships' observations are interesting in this connection :—

Date.	Hr. of obsn.	Name of ship.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
1st Octr. .	0630	*S. S. Suisang* . .	20·2	88·7	NE	5	Mod. .	Mod. from SW.	
1st Octr. .	0630	*S. S. Hatipara* . .	16·2	83·4	NW	5	Slight .	Mod. from SW.	Drizzling.
1st Octr. .	1130	*S. S. Clan Macilwraith* .	15·0	87·3	SW	7	High .	Mod. from SW.	Squally.
1st Octr. .	0930	*S. S. Singu* . . .	18·8	92·5	SE	5	Mod. .	Mod. from SW.	

By the morning of the 2nd the depression deepened further and was centred at 8 hrs, near Lat. 18½° N., Long. 89° E. The following three ships though far away from the centre were gripped in the circulation and this was helpful in locating the centre :—

Date.	Hr. of obsn.	Name of ship.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
2nd Octr. .	0930	*S. S. Barbarigo* . .	19·5	87·6	NE	5	..	..	Squally.
2nd Octr. .	0530	*S. S. Rahmani* . .	16·4	86·2	WNW	6	Rough .	Heavy from NW.	Squally.
2nd Octr. .	0630	*S. S. Pasha* . . .	18·3	91·2	S	4	Rough .	Heavy from SW.	

During the course of the day the deep depression recurved and while moving in a northwesterly direction intensified into a storm by the evening. It was centred at 8 hrs. of the 3rd within half a degree of Lat. 19½° N., Long. 88½° E. The logs and reports received from *S. S. Jalarashmi*, *Jalaputra*, *Chinkoa* and *Kutsang* which were not far from the centre of the storm are very interesting and are given below :—

S. S. Jalarashmi.

Date.	Hour.	Position.		Bar.	Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.		Dir.	For.			
		° ′	° ′	″					
3rd Oct. .	0400	20 37	87 49	29·38	ENE	4	Moderate .	Mod. average length.	Continuous rain, few heavy showers and squals.
	0800	20 15	87 19	29·38	NNE	5	Rough .	Mod. Long .	Heavy rain showers, Vis. mod., Rising sea.
	0900	20 7	87 9	29·36	NNE	7	Rough .	Mod. Long .	Rain squalls, Vis. mod.

S. S. Jalarashmi—contd.

Date.	Hour.	Position.		Bar.	Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.		Dir.	For.			
		° ′	° ′	"					
3rd Oct.—*contd.*	1000	19 59	87 00	29 32	NNE	7	Rough .	Heavy short	Rain, Vis. poor.
	1100	19 50	86 50	29 27	NNE	7	Very rough	Heavy average length.	
	1200	19 42	86 40	29·27	NNE	7-8	Very rough	Heavy average length.	
	1300	19 36	86 30	29·21	NNE	7-8	Very rough	Heavy long	
	1400	19 30	86 23	29·16	N	8	High .	Heavy average length.	Squalls of storm force, Vis. poor.
	1500	19 25	86 16	29·12	NNW	9	High .	Heavy average length.	
	1600	19 15	86 14	29·12	NW	10	High .	..	Vis. poor.
	1700	19 08	86 11	29·12	NW	10	High .	..	Squalls of hurricane force, heavy rain showers.
	1800	18 58	86 08	29·14	WNW	10	..	..	Vis. very poor.
	1900	18 49	86 06	29·13	WNW	10	..	..	Hurricane squalls.
	2000	18 40	86 03	29·15	W	10	..	..	
	2100	18 35	86 14	29·23	WSW	10	..	..	Bar. rising.
	2200	18 31	86 24	29 33	WSW	10	..	..	
	2300	18 26	86 36	29 35	WSW	8-9	..	..	Weather moderating generally
	0000	18 20	86 49	29·39	WSW	7-8	..	..	
4th Oct. .	0400	18 8	86 40	29·46	SW	6	Rough .	Heavy short	Break in the clouds dim moonlight came through.
	0800	17 50	86 27	29·60	SSW	6	Rough .	Mod. long.	
	1200	17 27	86 12	29·64	SSW	5-6	Rough .	Mod. long.	
	2000	16 40	85 50	29·70	SSW	5	Rough .	Mod. long.	
	0000	16 20	85 40	29·72	SSW	4-5	Rough .	Mod. long.	

S. S. Jalaputra.

Date.	Hour.	Position.		Bar.	Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.		Dir.	For.			
		° ′	° ′	″					
3rd Oct.	0800	20 15	87 40	29·41	ENE	4-5	Rough	Moderate average length.	
	0900	..	..	29·36	NE/E	6-7	Rough	Heavy short.	
	1000	..	..	29·31	NE/E	7	Rough	Heavy average lengh.	
	1100	..	..	29·21	NE/E	7	Very rough	Heavy average length.	
	1200	19 47	87 11	29·23	NE/E	7	Very rough	Heavy average length.	
	1300	..	..	29·19	NE	7-8	Very rough	Heavy average length.	
	1400	..	..	29·17	NE/N	7-8	Very rough	Heavy average length.	
	1500	..	..	29·15	NNE	8	High	Heavy average length.	
	1600	19 38	86 52	29·09	NNW	9	High	Heavy average length.	
	1700	..	..	29·11	NNW	9	Very high	Heavy average length.	
	1800	..	..	29·14	NNW	9	Very high	Heavy average length.	
	1900	..	..	29·17	NNW	9	Very high	Heavy average length.	
	2000	19 30	86 35	29·19	NW	9	Very high	Heavy average length.	
	2100	19 23	86 40	29·23	WNW	9	Very high	Heavy average length.	
	2200	19 17	86 45	29·29	WNW	9-10	Very high	Heavy average length.	
	2300	19 12	86 47	29·33	W/N	9	Very high	Heavy average length.	
	0000	19 04	86 50	29·39	W	7-8	Very high	Heavy average length.	
4th Oct.	0100	..	..	29·39	WSW	6	High	Heavy long.	
	0200	..	..	29·43	SW	6	Very rough	Heavy average length.	
	0300	..	..	29·44	SW	6	Very rough	Heavy average length.	
	0400	18 48	87 05	29·46	SW/S	6	Very rough	Heavy average length.	
	0500	..	..	29·47	SW/S	6	Very rough	Heavy average length.	
	0600	..	..	29·49	SW/S	6	Rough	Heavy average length.	

S. S. Chinkoa.

Date.	Hour.	Position.		Bar.	Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.		Dir.	For.			
		° ′	° ′	″					
3rd Oct.	1200	19 28	85 58	29·50	W/N	7-8	Rough	Heavy	
	1400	19 26	86 02	29·40	W	8	High	Heavy	
	1600	19 23	86 06	29·40	W	8	High	Heavy	
	1700	19 22	86 08	29·38	W	9	..	..	Wind increasing in force.
	1800	19 20	86 10	29·38	W	10	..	..	
	2000	19 18	86 14	29·48	W	10	High	Heavy short	Whole gale, continuous heavy rain.
	2200	19 12	86 19	29·54	W/N	9	..	..	
	0000	19 10	86 24	29·62	W/S	6	High	Heavy short	

S. S. Kutsang.

Date.	Hour.	Position.		Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long. E.	Dir.	For.			
		°	°					
3rd Oct.	0830	20·2	89·0	E	6	Very rough	Moderate from SW	Rainsquall.
	1030	20·2	89·2	ESE	6	Very rough	Moderate from SE	Squally.
	1230	20·0	89·4	SE	7	High	Heavy from SE	Shower with squall.
	1700	19·6	89·8	S	8	Very high	Heavy from SW	Squally.
	1900	19·3	90·0	SSW	8	High	Heavy from SW	Squally.

From the above it will be seen that the storm intensified further into a severe one during the course of the day and was centred within half a degree of Lat. 19½°N. and long. 87½°E. at 17 hours of the 3rd. The pressure deficiency at the centre of the disturbance at this time was probably of the order of 0·80″. Continuing to move in a northwesterly direction the severe storm lay near Orissa coast between Puri and Chandbali at 2 hours on the 4th. By 8 hours of the same day it passed inland and lay over Orissa as a deep depression. Travelling thereafter as a deep depression through Chota Nagpur it recurved northeastwards on the 5th, weakening at the same time, and became unimportant over east Bengal two days later.

This storm was responsible for fairly widespread and locally heavy rain in Burma and the head of the Bay of Bengal and in northeast India generally. Rainfall was particularly heavy and concentrated over Orissa on the 14th and extensive damage is reported to have occurred over a wide area in the Province, nearly 300 thatched houses collapsing in Cuttack alone. Railway services as well as telegraphic and telephonic communications in Orissa, Chota Nagpur and Bihar were severely dislocated. Some of the heavy falls of rain recorded at 8 hours during the period of activity of the storm are given below:—

District.	Station.	4th.	5th.	6th.	7th
		″	″	″	″
Sonepur . . .	Sonepur . . .	..	5	..	..
Rairkhol . . .	Rampur . . .	..	8	..	..
Bamra . . .	Deoghar . . .	..	10	..	..
Gangpur . . .	Gangpur . . .	..	7	..	..
Bonari . . .	Baraigarh . . .	..	8	..	..
Dhankuul . .	Dhenkanal . .	..	7	..	..
Dhankuul . .	Bysinga . . .	..	9	..	..
Pal Lahara . .	Pal-Lahara . .	12	..	..	..
Athmallik . .	Handapa . .	..	7	..	..

District.	Station.	4th.	5th.	6th.	7th.
		"	"	"	"
Band	Band	..	7	..	..
Athgarh	Athgarh	6	..	..	..
Tigiria	Tigiria	..	5	..	..
Jashpur	Jashpur	..	5	..	..
Gaya	Nabinagar	..	5	..	..
Gaya	Aurangabad	..	..	8	..
Monghyr	Monghyr	..	..	5	..
Monghyr	Jamul	..	..	7	..
Monghyr	Gogri	...	..	6	..
Monghyr	Jamalpur	...	...	6	..
Monghyr	Bakhtiarpur	..	..	5	..
Monghyr	Gidhaur	..	..	6	..
Bhagalpur	Bhagalpur	..	6	..	..
Bhagalpur	Sonola	..	..	5	..
Bhagalpur	Sultanganj	..	..	7	..
Purnea	Araria	..	..	5	..
Purnea	Purnea	..	..	..	6
Purnea	Gondwara	..	..	..	5
Purnea	Barsoe	..	..	..	6
Purnea	Monihari	..	8	..	..
Santal Parganas	Sonath	..	5	..	..
Santal Parganas	Sarawan	..	..	5	..
Santal Parganas	Sahebganj	..	..	11	..
Santal Porganas	Pairo	...	..	5	..
Hazaribagh	Dhawai	...	..	5	..
Manbhum	Tundi	...	6	..	..
Manbhum	Katras	...	..	5	..
Rangpur	Rangpur	...	..	..	9
Rangpur	Kurigaon	...	...	...	6
Rangpur	Bagdogra	..	...	7	...
Rangpur	Ulepore	..	..	...	6
Rangpur	Saidpur	..	...	7	..
Ranchi	Chainpur	...	..	10	..
Dinajpur	Itahar	..	..	5	..
Dinajpur	Raiganj	..	..	..	5
Dinajpur	Thakurgaon	..	..	..	6
Dinajpur	Setabganj	..	..	..	6
Mymensingh	Mymensingh	..	..	5	..
Mymensingh	Durgapur	..	...	7	..
Goalpara	Mankachar	..	5	..	..
Khasi and Jainti Hills	Mawphlang	...	..	..	6
Khasi and Jainti Hills	Cherrapunji W. M.	6	..	11	11
Khasi and Jainti Hills	Cherrapunji	5	..	11	11
Khasi and Jainti Hills	Jowai	..	..	6	..
Cachar	Haflong	..	..	6	..
Cachar	Harangagao	..	..	5	..

13. *Storm of 25th to 31st October 1936 in the Bay of Bengal.*—The northeast monsoon was established in the Bay by the third week of October. On the morning of the 24th ships in the Bay between latitudes 9° N. and 14° N. and west of longitude 91° E., reported N-ly or NE-ly winds with generally overcast skies and rainsqualls. On the morning of the following day a cyclonic circulation was being established in the south Bay where a depression was forming with central region near Lat. 10° N., Long. 87½° E. The following ships' observations are significant in this connection :—

Date.	Hr. of Obsn.	Ships.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
25th October.	0630	*S. S. Masimpur*	9·5	86·4	NW	4	Mod.	Mod.	....
	0630	*S. S. Jalatarang*	12·7	90·6	SE	4	Sl.	Mod. from S.	....
	0700	*S. S. Erinpura*	14·2	86·4	ESE	5	Mod.	Mod. from E.	....
	0630	*S. S. Khosru*	13·0	84·3	NE	3	Sl.	Mod. from NE.	....
	0800	*S. S. Howra*	10·9	83·8	N/E	3	Mod.	Mod. from ENE.	Passing shower.
	0800	*S. S. Favorit*	13·2	86·5	NE	3	Mod.	..	....

During the course of the day a depression formed and moving in a westerly direction it lay on the morning of the 26th, centred near Lat. 10½° N., Long. 85° E. The marked strengthening of winds at Madras and Vizagapatam up to 2 km. is significant in this connection. The following observations from ships on the morning of the 26th round the centre are of interest :—

Date.	Hour of observation.	Steamer.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
26th October.	0630	*S. S. Howra* . . .	13·3	84·8	ENE	6	Rough .	Heavy from NE.	....
26th October.	0800	*S. S. City of Glasgow* .	10·1	81·3	N	5	Mod. . .	Mod. from N.	Rain squall.
26th October.	0630	*S. S. Risaldar* . .	8·3	82·8	W	3	Slight. .	Mod. from E.	....
26th October.	0630	*S. S. Aungban* . .	9 3	86·2	SSW	6	Rough .	Heavy from SW.	....
26th October.	1130	*S. S Jalatarang* . .	10·5	87·1	SSW	4	Rough .	Mod. from S.	Rain.
26th October.	0630	*S. S. Rohna* . . .	8·5	87·6	S	5	Mod. . .	Confused.	Rain.

Pressure fell rapidly during the course of the day along the Coromandel coast and the depression, which developed into a cyclonic storm by the evening, moved in a northwesterly direction and lay centred about 150 miles eastsoutheast of Madras on the morning of the 27th. The storm then began moving in a northnorthwesterly direction and during the course of the day increased in intensity the pressure deficiency at the centre being of the order of 0·50 ″. By 11 hrs. on the 28th the storm crossed the Circars coast near Masulipatam and began weakening rapidly. It travelled thereafter as a deep depression across Hyderabad to the Central Provinces, where it filled up by the 31st.

The storm caused widespread and heavy rain along the east Madras and Orissa coasts between the 26th and 28th and in the Central Provinces on the 29th and 30th, locally heavy rain also falling in Hyderabad, Chota Nagpur, Bihar, the east United Provinces and east Central India. It was responsible for severe damage in the coastal districts of the Madras Presidency which lay along and near its track. According to newspaper reports the damage extended from the north of Nellore district to the Godavari district, the worst sufferer being the Taluq of Bapatla in the Guntur district. In many villages almost every thatched shed collapsed rendering thousands of people homeless. Even well built structures were heavily damaged, roofs being blown away in many cases. The Tobacco Factory at Chirala is reported to have sustained damage of about two lakhs of rupees. Many places were inundated by the heavy rain. At Masulipatam thousands of bags of groundnuts stocked in the godowns were damaged by the running in of sea water. Fruit gardens and standing as well as harvested crops were destroyed and hay stacks and fodder heaps were scattered by the wind. Heavy loss of live stock is also reported. Some human lives were also lost, mainly owing to collapse of walls. Almost all avenue trees were uprooted and obstructed road traffic. Telegraph and telephone lines were blown down and several breaches occurred on railway lines in the region affected.

A few noteworthy rainfalls are given in the following table :—

District.	Station.	27th.	28th.	29th.	30th.	31st.
		"	"	"	"	"
Chanda .	Chanda .	..	..	..	6	..
Chanda .	Chimar .	..	..	..	6	..
Chanda .	Nalesar .	..	..	..	7	..
Chanda .	Chorajheri .	..	..	..	7	..
Balaghat .	Borikhera .	..	..	..	5	..
Chhindwara.	Bori . .	..	..	..	5	7

District.	Station.	27th.	28th.	29th.	30th.	31st.	District.	Station.	27th.	28th.	29th.	30th.	31st.
		"	"	"	"	"			"	"	"	"	"
Nagpur.	Nagpur .	..	..	..	6	..	East Godavari.	Rajole .	..	8	..	..	..
Nagpur. .	Umrer .	..	..	..	7	..	East Godavari.	Prattipadu .	..	..	12	..	..
Nagpur .	Ramtek .	..	..	..	5	..	East Godavari.	Peddapuram	..	..	9	..	..
Nagpur .	Tharsa .	..	..	..	5	..	Vizagapatam.	Srungavarapukota.	..	..	5	..	..
Nagpur .	Parseone .	..	..	..	6	..	Kistna .	Masulipatam	..	5	..	..	..
Yeotmal .	Penderkowra	..	..	..	5	..	Kistna .	Jaggayyapeta	..	..	7	..	..
Ganjam .	Gopalpur .	..	..	6	..	..	Kistna .	Nandigama .	..	..	10	..	..
East Godavari .	Bikkavalu .	5	6	..	..	..	Guntur .	Guntur .	..	..	7	..	..
							Guntur .	Repalle .	..	7	..	..	..
East Godavari .	Pithapuram.	..	..	5	..	..	Guntur .	Santaravur .	..	..	5	..	..
East Godavari .	Cocanada .	..	5	11	..	..	West Godavari.	Sattenapalle.	..	..	5	..	..
East Godavari.	Coringa .	..	..	9	..	..	West Godavari.	Tanuku .	..	5	..	..	..

14. *Deep Depression of 1st to 15th November 1936 in the Arabian Sea.*—On the morning of the 1st November weather became suspicious in the southwest Bay and by evening of the same day a low pressure wave was seen travelling westwards, across the Coromandal and Ceylon coasts. At 8 hrs. of the 2nd the low pressure wave was over the extreme south of the peninsula and Gulf of Mannar and was moving westwards into the southeast Arabian Sea. By the morning of the 3rd the low pressure wave concentrated into a shallow depression in southeast Arabian Sea off Malabar with central region near Lat. 9½°N., Long. 75°E. as is evident from the following observations :—

Station or Steamer.	Wind.		Bar.
	Dir.	For·	
			"
Aminidevi	NE	2	29·79
Minicoy	N	1	29·80
Trivandrum	ESE	2	29·80
Pamban	E	2	29·80
Madura	ENE	3	29·80
Cochin	SE	2	29·79
Calicut	Calm	...	29·78
Mangalore	NE	1	29·79
S. S Rizwani (Lat. 9½°N., Long. 76°E.) . . .	SE	2	29·73
S. S. Jaladuta (Lat. 12½°N., Long. 74½°E.) . . .	NE	1	29·78

Upper winds at Trivandrum were between S and W (force 2—4 B. S.) up to 6 km. and those at Mangalore were from E (force 5—7 B.S.) up to 3 km. (limit of ascent).

While moving slowly westwards for the next 48 hours, the shallow depression intensified further and was centred about 50 miles to the northeast of Minicoy at 8 hrs. on the 5th morning. At this time Minicoy and Aminidevi were experiencing rough seas. The depression then moved in a northwesterly direction and was centred within a degree of Lat. 10°N., Long. 72½°E. at 8 hrs. on the 6th. During the next 24 hours the depression was practically stationary but pressures began to fall on the morning of the 7th along the Konkan-Kathiawar coast north of Mangalore up to Veraval and in the Arabian Sea showing that it was likely to move in a northerly direction. Aminidevi and Minicoy were experiencing rough seas and ships and stations along and off the Malabar coast reported showers and occasional rain-squalls. During the course of the day it moved northnorthwestwards and at 8 hrs. of the 8th was centred near Lat. 13°N., Long. 71½°E. At this time the upper winds at Mangalore were between S and SE of force 5 to 8 B.S. at all levels and the winds at Bombay, Poona and Bellary were also between E and SE with force 5 to 8 suggesting that the depression had intensified further and was moving northwards.

The deep depression thereafter moving in a more northerly direction was centred near Lat. 18°N., Long. 71°E. at 17 hrs. on the 11th. *S. S. Aungban* which left Bombay Harbour at 17 hrs. 16 mins. On the 11th was experiencing at Lat. 18°37'N., Long. 72°35'E. at 20 hrs. very rough seas, heavy swell and SSE-ly winds of force 7. At 8 hrs. on the 12th the deep depression was centered near Lat. 19°N., Long. 70½°E. At this time Bombay upper wind was of force 9 B.S. from the S at 1 km. (limit of ascent). Thereafter the

depresssion took a northwesterly course and on the 13th morning it was about 50 miles southwest of Veraval and rough to very rough seas and rainsqualls were being experienced along the Kathiawar coast. The following log of *S. S. Varela* which was bound from Karachi to Bombay is interesting :—

Date.	Hr. of obsn.	Position.		Bar.	Wind.		Sea.	Swell.	Remarks.
		Lat. N.	Long E.		Dir.	For.			
		° ′	° ′	″					
13th Novr.	0900	22 20	68 31	29·80	NNE	6	Rough.	Low.	
	1000	22 10	68 37	29·81	ENE	6—7	Rough.	Low.	From 1015 heavy rain, squalls at frequent intervals, wind about force 7—8 during squalls.
	1100	22 00	68 47	29·80	E/N	7	Rough.	Mod. short.	
	1200	21 51	69 00	29·80	E/N	6	Rough.	Mod. long.	
	1300	21 42	69 11	29·75	E/N	6	Rough.	Mod.	Between 2-30 P.M. 4-00 P.M. passed apparent centre of cyclone and eastward (vessel to the eastward). Distances from centre not known but would approximate it at 20 or 30 miles away.
	1400	21 33	69 23	29·70	ESE	6—7	Rough.	Mod.	
	1500	21 28	69 28	29·68	SE	6—7	Rough.	Mod.	
	1600	21 19	69 40	29·68	SE/S	6	Rough.	Mod.	
	1700	21 11	69 52	29·70	S/E	5—6	Rough.	Mod.	
	1800	21 02	70 04	29·73	S	7	Mod.	Mod.	
	1900	20 55	70 09	29·77	S/E	5	Mod.	Low long.	

It will be seen from the above log that the lowest pressure of 29·68″ recorded by this ship was between 15 and 16 hrs. on the 13th when it passed near the centre of the depression which was near Lat. 21½°N., Long. 69°E. and the pressure deficiency was of the order of 0·20″.

The depression was centred near Dwarka at 17 hours of the 14th when *S. S. Varsova* bound from Bombay to Karachi was within about 50 miles of the centre and experienced NE-ly winds of force 7 B.S., continuous rain, rough seas and heavy swell. Thereafter the depression weakened and moving in a northeasterly direction filled up over Cutch on the 15th.

Under the influence of this disturbance widespread and locally heavy rain occurred in south Madras on the 1st and 2nd, over the whole of the Peninsula between the 7th and the 10th and in Central India and the west Central Provinces between the 9th and 13th. Rainfall was also fairly widespread in the Konkan and the Deccan on some days after the 10th and occurred locally in Gujarat, Rajputana and Sind between the 8th and 15th. Of the locally heavy rainfalls caused by this depression a special mention may be made of a fall of 9″ at Cuddalore and 5″ at Negapatam on the 1st and a fall of 6″ each at Trichinopoly and Edalabad (east Khandesh) on the 2nd and 10th respectively.

15. *Depression of 4th to 7th November 1936 in the Bay of Bengal.*—Weather appeared unsettled in the south Bay on the morning of the 3rd November from the observations of the following two ships :—

Date.	Hr. of obsn.	Name of ship.	Position.		Wind.		Sea.	Swell	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
3rd November.	0800	*S. S. Behar* . . .	5·9	86·8	W	3	Mod.	...	Heavy rainsquall.
3rd November.	0800	*S. S. Jalapadma* . .	8·8	85·6	NNE	1	Sm.	...	

On the morning of the 4th the unsettled conditions became well-marked where the following ships' observations indicated that an anticlockwise circulation was being established, and a depression was forming with central region near Lat. 9°N., Long. 88°E.

Date.	Hr. of obsn.	Name of Ship.	Position.		Wind.		Sea.
			Lat. N.	Long. E.	Dir.	For.	
			°	°			
4th November.	0800	*S. S. Taijin Maru*	5·7	86·3	WSW	3	Sl.
4th November.	0800	*S. S. City of Windsor*	8·5	91·9	SSE	3	Mod.
4th November.	0800	*S. S. Benalder*	12·3	84·5	NE	4	Sl.
4th November.	0800	*S. S. Homefield*	13·2	90·0	ENE	5	Mod.
4th November.	0630	*S. S. Jalaputra*	10·0	83·6	N	2	Sm.

During the course of the day the depression formed and moving in a northwesterly direction lay centred at 8 hours on the 5th near Lat. 11½°N., Long. 86°E. Thereafter moving in a westnorthwesterly direction it began to affect the weather over the Coromandel coast where locally heavy rain commenced. On the morning of the 6th it was centred near Lat. 12°N., Long. 84°E. Continuing to move in a westnorthwesterly course the depression weakened and crossed the coast near Madras by the morning of the 7th and became unimportant during the course of that day.

In association with this depression widespread and locally heavy rain fell in southeast Madras and the north Madras coast. A few noteworthy rainfalls are given in the following table :—

District.	Station.	6th.	7th.
		"	"
Nellore . . .	Nellore	5	14
Nellore . . .	Atmakur. . . .	...	8
Nellore . . .	Kandukur . . .	...	11
Nellore . . .	Kavali	...	8
Nellore . . .	Iskapalle . . .	...	5
Nellore . . .	Krishnapatam . .	6	9
Nellore . . .	Gudur	5	5
Nellore . . .	Rapur	5	--
Nellore . . .	Venkatagiri . . .	5	--
Nellore . . .	Sulurpet . . .	8	..
Nellore . . .	Tada	11	..
Chingleput . .	Attipet	6	--
Chingleput . ..	Ponneri . . .	7	..
Chingleput . .	Sathiavedu . . .	6	..
Chittoor . .	Kalahasti . . .	7	..

16. *Shallow Depression of 2nd to 6th December 1936 in the Bay of Bengal.*—A low pressure area in the neighbourhood of the Gulf of Siam caused unsettled weather in the south Andaman Sea from the 28th to 30th November. On the 1st December the low pressure wave moved westwards to the Andaman Sea where conditions became markedly unsettled. The upper winds over Victoria Point were of force 6-7 B. S. from S. and SE between 1 and 4 Km. and those over Port Blair were N, 5 B. S. at 0.5 Km. (Limit of P. B. ascent). By the morning of the 2nd the unsettled

conditions moved westwards and concentrated into a shallow depression with central region near Lat. 11°N.; Long. 91E°. The observations of Port Blair and those of the following ships are significant.

Date.	Hr. of obsn.	Name of Station. or Ship.	Position.		Wind.		Sea.	Swell.	Remarks.
			Lat. N.	Long. E.	Dir.	For.			
			°	°					
2nd December	0800	Port Blair	..	..	S	3	Slight.	..	..
„	0630	*S. S. Jalamani* . . .	11·5	89·3	N	4	Mod.	Mod. from E.	..
„	0530	*S. S. Jalavihar* . . .	12·8	90·6	ENE	5	Rough.	Mod. from NE.	Drizzle.
„	0800	*S. S. Bahadur*	12·2	91·1	NE	6	Rough.	„	Rainsquall.

The depression without further intensification moved in a northerly direction and on the morning of the 3rd lay centred near Lat. 13½°N., Long. 91½°E. During the course of the next 24 hours it weakened and on the morning of the 4th lay as a through of low pressure extending from the South to the central Bay. Without any more concentration it persisted there till the 6th after which it filled up.

17. *Depression of 30th to 31st December 1936.*—On the morning of the 30th a heavy rainfall of 4" at Trincomalee and a fall of pressure over east Ceylon and over the south Coromandel coast indicated that weather was unsettled in the southwest Bay off Ceylon. By the evening of the same day pressure further fell along the east Ceylon coast where a concentrated negative pressure departure appeared and a depression formed with centre at 17 hours near Lat. 8½°N., Long. 82°E. By the next morning the depression moved southwestwards across Ceylon to the southeast Arabian Sea. Weakening thereafter it moved away westwards as a low pressure wave by the next day.

WESTERN DISTURBANCES.

The following is a list of the western disturbances which affected the weather in northern India during the year with dates on which they did so and brief notes on the precipitation that they produced :—

Serial No.	Date.	Remarks.
	January.	
1	1—4 . .	Fairly widespread rain or snow in the north-west frontier, Kashmir, the north Punjab and the hills of the United Provinces between the 1st and 4th.
2	6—9 . .	Light rain or snow at a few stations in the North-West Frontier Province on the 6th and 7th and local rain or snow in Kashmir between the 6th and 9th.
3	8—11 . .	Fairly widespread rain in Baluchistan on the 8th and 9th and in Kashmir on the 10th; local falls in the Punjab hills on the 10th and a few light showers in Kashmir on the next day.
4	13—14 .	Widespread light falls of rain or snow in north Baluchistan on the 13th with scattered light showers in Kashmir on the next day.
5	20—24 .	Local rain or snow in Kashmir with a few falls in the east and north Punjab and the west United Provinces on the 21st and light local rain in Central India with a few falls in the Central Provinces, the United Provinces and Kashmir on the 22nd. Widespread rain in the United Provinces to Assam on the 23rd and nearly general rain in Assam with a few falls in Bengal on the next day.
6	24—25 .	Gave no precipitation.
7	28—31 .	Scattered light showers in the United Provinces and the central parts of the country on the 28th. Fairly widespread rain in east Central India on the 29th and local showers in the east Central Provinces, the United Provinces and Chota Nagpur between the 29th and 31st with a few light showers in Bihar and Bengal on the 31st.
	February.	
8	1—2 . .	Light local rain or snow in Kashmir with a few showers in Baluchistan on the 1st.
9	4—10 . .	Fairly widespread rain in Kashmir, along the north-west frontier, in the east and north Punjab and the United Provinces, with a few falls in Sind and the southwest Punjab between the 5th and 7th. Scattered thunderstorms and rain in the Unied Provinces, Bengal Assam and Upper Burma between the 8th and 10th.

Serial No.	Date.	Remarks.
	February —contd.	
10	9—12	Gave no precipitation.
11	12—13	
12	15—18	Widespread dust or thunderstorms along the north-west frontier on the 15th. Scattered thundershowers in the north-west frontier, Kashmir, the Punjab hills, Rajputana and the Central Provinces between the 15th and 17th. Local rain in the west United Provinces, Orissa, south Bengal and Assam on the 17th and nearly general thunderstorm rain in Assam on the next day.
13	21—24	Widespread rainfall attended with thunderstorms along the north-west frontier, in Kashmir, the Punjab and the United Provinces on the 22nd and 23rd.
14	25—27	Nearly general rain in Baluchistan and the North-West Frontier Province and local rain in Kashmir with a few falls in the Punjab on the 25th; fairly widespread rain in the North-West Frontier Province and Kashmir and local rain in the east and north Punjab, Sind and Baluchistan on the 26th.
15	28th February to 2nd March	Widespread rain in Baluchistan, the North-West Frontier Province, Kashmir and the east and north Punjab on the 28th, in the North-West Frontier Province, the Punjab, Kashmir and the United Provinces hills on the 1st March. A few falls also occurred in Sind and the southwest Punjab on the 28th and in the North-West Frontier Province and the Punjab hills and Kashmir on the 2nd.
	March.	
16	6—10	Widespread rain in Baluchistan, the North-West Frontier Province, Kashmir, the east and north Punjab and the west United Provinces between the 6th and 10th; scattered showers in Sind on the 6th and in east Rajputana and Central India on the next day.
17	13—16	Local rain in Kashmir and scattered thundershowers in the North-West Frontier Province and the north Punjab between 14th and 16th.
18	21—22	Scattered drizzles and dust-storms along the North-West frontier with a few light showers in Kashmir on the 21st.
19	22—23	Scattered light rain in the North-West Frontier Province on the 23rd.
20	24—27	Local rain in Kashmir and the North-West Frontier Province on the 24th, along the north-west frontier on the 25th and in Kashmir and the hill districts of the Punjab and the United Provinces between the 25th and 27th.
21	27—29	Local thundershowers along the northwest frontier on the 27th, in Kashmir and the Kumaon hills on the 28th and in the east and north Punjab, Kashmir, west Rajputana and the west United Provinces on the next day.

Serial No.	Date.	Remarks.
	April.	
22	1—3	Fairly widespread thundershowers along the north-west frontier and in the north Punjab hills on the 2nd.
23	4—6	Fairly widespread thunderstorm-rain in the North-West Frontier Province, Kashmir, the Punjab and the hills of the United Provinces on the 4th, and in Bengal, Assam and Upper Burma between the 5th and 6th.
24	6—7	Local rain in the North-West Frontier Province on the 6th and local thunderstorm-rain along the north-west frontier, in Kashmir, the east and north Punjab and the west United Provinces with a few falls in the east Central Provinces on the 7th.
25	9—11	Caused no precipitation.
26	17—20	Scattered thunderstorms in the north Punjab and Kashmir with a few falls of rain in the North-West Frontier Province, on the 18th. Fairly widespread thunderstorms along the north-west frontier and in the Punjab with local rain in Kashmir and the north Punjab on the 19th and 20th.
27	22—24	Widespread dust or thunderstorms in Baluchistan and the Punjab with fairly widespread rain in the North-West Frontier Province and Kashmir on the 23rd, and local rain in the North-West Frontier Province and Kashmir with local thunderstorms in the north Punjab on the next day.
28	28—29	A few falls of rain or snow in Kashmir on the 28th and 29th.
	May.	
29	1—3	A few thundershowers on the western Himalayas between the 1st and 3rd.
30	4—6	Fairly widespread dust or thunderstorms, with local falls of rain from the North-West Frontier Province to the west United Provinces between the 4th and 6th.
31	9—10	Gave no precipitation.
32	11—14	Scattered rainfall in the North-West Frontier Province with dust or thunderstorms in the west United Provinces and the east Punjab between the 11th and 14th.
33	17—22	A few falls of rain in Baluchistan on the 18th, widespread dust or thunderstorms there on the next day and local falls of rain in and near the Western Himalayas between the 19th and 22nd.
34	21—22	Scattered dust-storms in North Baluchistan on the 22nd; widespread dust or thunderstorms in Baluchistan and fairly widespread rain in the North-West Frontier Province on the 23rd and local thunderstorms in the Punjab and the North-West Frontier Province on the next day.
	June, July, August and September.	No well-marked western disturbances.

Serial No.	Date.	Remarks.
	October.	
35	31st October to 3rd November.	Local rain or snow in the North-West Frontier Province, Kashmir and the north Punjab with local dust-storms in Baluchistan on the 31st October and scattered dust or thunderstorms along the North-West Frontier, Kashmir and the north Punjab between the 1st and 3rd November.
	November.	
36	4—7 . .	Light thundershowers at a few stations in the North-West Frontier Province and the north Punjab between the 4th and 6th and local rain or snow in Kashmir on the 4th with a few falls there on the next day.
37	7—8 .	Gave no precipitation.
38	11 .	
39	14—15 .	A few falls of rain or snow in Kashmir on the 15th.
40	19—21	Gave no precipitation.
41	23—25	
42	25—26 .	A few falls of rain or snow in Kashmir on the 26th.
43	28th November to 2nd December.	A few light showers along the north-west frontier and in Kashmir with a few dust-storms in Baluchistan on the 30th and fairly widespread rain in Kashmir and the Punjab with a few falls in the adjoining districts of the United Provinces and Rajputana on the 1st and 2nd December.
	December.	
44	3—4 . .	Gave no precipitation.
45	6—9 .	Local rain in Baluchistan, Sind and the south-west Punjab on the 6th and 7th and in the Punjab and the west United Provinces on the 8th and 9th and a few falls of rain in Baluchistan and Kashmir on the 8th.
46	8—9 .	
47	8—13 .	Fairly widespread rain in Baluchistan and the North-West Frontier Province between the 9th and 13th and in Kashmir between the 10th and 13th and a few falls in the Punjab between the 10th and 13th and in Sind on the 10th.
48	15—22 .	A few light showers along the north-west frontier on the 15th, local rain in and near the western Himalayas on the 15th and 16th and fairly widespread rain in the United Provinces on the next two days. Local thunderstorms and rain in the central parts of the country and north-west India on the 19th and fairly widespread thunderrain in east Central India on the 18th and 19th, in Bihar and Chota Nagpur on the 19th and 20th and in Assam on the 21st, with a few falls in the Central Provinces on the 19th and 20th, in Bengal and Orissa on the 20th and 21st and in Assam on the 20th and 22nd. Local thunderrain also along and near the hills of the Punjab on the 19th, and in the United Provinces hills on the next day.
	December—contd.	
49	19—20 .	A few falls of rain in Kashmir on the 19th.
50	22—25 .	Local rain in Kashmir, the North-West Frontier Province and in and near the Punjab Hills on the 24th and 25th, in Sind on the 24th and in the hills of the United Provinces on the next day, with a few falls in Baluchistan between the 22nd and 24th and in Gujarat on the latter date.
51	27—28 .	Gave no precipitation.
52	30—31 .	A few falls of rain or snow in Kashmir on the 30th and 31st.

LOCAL STORMS.

Of the local storms reported in newspapers, the following are noteworthy :—

February 7th.—A passenger train was completely blown off the rails by a severe thunderstorm near Abhanpur Railway Station in the Central Provinces. Several carriages were telescoped, the Guard was seriously injured, and several passengers received slight injuries.

February 11th.—A severe hailstorm occurred at Dhulia (East Khandesh) which caused considerable damage to mango and cotton crops.

February 15th.—A thunderstorm with heavy squalls swept over Repalle (Guntur), blowing off tin sheets from the roofs of factories and overturning 15 carts in a neighbouring village. Two occupants of the carts were reported killed.

February 20th.—Hailstorms of the size of an apple were reported to have fallen at Gauhati during a severe hailstorm on February 20th.

At Sibsagar some damage to property occurred during a hailstorm accompanied with a strong gale, the intensity of which was considered to be a record for the district.

March 9th.—Dhubri had a severe hailstorm, in which one man was reported killed. The squall accompanying the storm blew down several houses and damaged one ferry steamer.

March 18th.—A violent hailstorm passed over Digboi (Dibrugarh), the seat of the Assam Oil Co., Ltd. Some production wells were damaged, and heavy squalls blew off the roofs of family quarters belonging to the company.

March 20th.—During a nor'wester in Calcutta, hailstones measuring nearly an inch in diameter were reported to have fallen. The roofs of several saloon cars in a garage were pierced by the stones, and many window panes in the city broken. Deterioration of visibility brought traffic to a standstill, and gharry-horses struck by hailstones ran amock.

March 21st.—A violent storm occurred in the village of Parmadhudia (Khulna), which was responsible for uprooting many trees and blowing away the roofs of several houses.

March 24th.—Noakhali district had a severe hailstorm. In the village of Sonaimuri the buildings of a dispensary and a school were blown down, and in one case the corrugated iron sheets of a roof were reported to have been carried by the wind to a distance of half a mile.

March 30th.—At Thakurgaon (Dinajpur) a severe storm demolished many huts and uprooted a number of trees. Well-secured corrugated roofs and varandahs were reported to have been blown off to distances of 100 and 200 yards.

April 21st.—The municipal office building at Burdwan was struck by lightning during a thunderstorm. It was damaged but no loss of life occurred.

April 29th.—Siliguri and the whole of the Terai region experienced a severe hailstorm. Huts were damaged and their roofs blown off.

May 1st and 2nd.—A heavy gale affected Bijapur district. Crops were damaged and trees uprooted.

May 2nd.—5 persons lost their lives as a result of house collapse during a storm at Dumka.

A severe hailstorm occurred at Jamalpur (Mymensingh). A number of houses were razed to the ground, roofs of several important buildings blown away, and jute crop seriously damaged.

May 3rd.—A nor'wester occurred at Calcutta, during which wind is reported to have reached a velocity of 53 miles per hour. A large tree was uprooted in Chowringhee, and vehicular traffic brought to a standstill by strong wind and bad visibility.

May 7th.—A thunderstorm with locally heavy rain for about half an hour occurred at Calcutta, flooding low-lying areas and causing interruption in one section of the tram service. A tree crashed on a motor car injuring two Marwaris.

Bareilly had a severe dust-storm which uprooted several trees and blew off a number of roofs. Strong wind helped several fires to break out.

May 9th.—A violent rain-squall affected south Bengal. Telegraphic communication was interrupted and traffic in the streets of Calcutta had to be suspended. A number of houses collapsed and crops seriously damaged. A large number of birds were killed.

In the village of Aloga (Shimoga) a man was killed by lightning while taking shelter under a tree during a thunderstorm.

May 10th.—At Udipi (South Canara) lightning struck a house causing cracks in the walls and doors, and killing one man.

May 12th.—A pandal on the old race course of Rangoon collapsed during a rainstorm. Three persons were killed and 27 injured, 9 seriously.

May 13th.—Hailstones as big as potatoes were reported to have fallen at Kananpur (Dehra Dun) causing considerable damage to crops.

A large boulder was dislodged by a storm and rolled down on a woman who was engaged in road-making at the foot of Nandi Hills (Mysore). She was seriously injured and died in hospital.

MGIPC—S3—VIII-3-140—24-1-38—520.

May 14th.—A severe dust-storm raged over Cuddapah for nearly two hours, colouring the sky red with blowing dust.

During a heavy thunderstorm at Patna, a milkmaid was struck dead by lightning while cutting grass in a field. A boat in the Ganges capsized and the passengers thrown overboard.

May 17th.—A heavy thunderstorm occurred in Dhanbad Sub-Division. Lightning struck at several places causing loss of life and setting a paddy store on fire.

A rainsquall at Kolhapur caused damage to crops and uprooted trees.

June 4th.—A man and his horse were struck dead by lightning during a thunderstorm near Hoshiarpur (Punjab).

June 5th.—A severe storm occurred over Fatehgarh (United Provinces) and surrounding area, causing considerable damage to buildings and telephone service. Train service was also interrupted.

June 28th.—A severe thunderstorm accompanied with heavy rain occurred at Ootacamund. It uprooted a large number of trees and blew off the roofs of several buildings. The electric supply and telegraph and telephone services were disorganised and several slips occurred on the roads. Two persons were reported to have been buried under the debris owing to collapsing of houses. A railway train was also held up near Fernhill railway station.

June 29th.—A violent dust and thunderstorm occurred at Drigh Road on the evening of June 29th. The gale reached a speed of 81 miles per hour, causing severe damage, to many buildings at the Air Port and Royal Air Force Lines, and injuring many people.

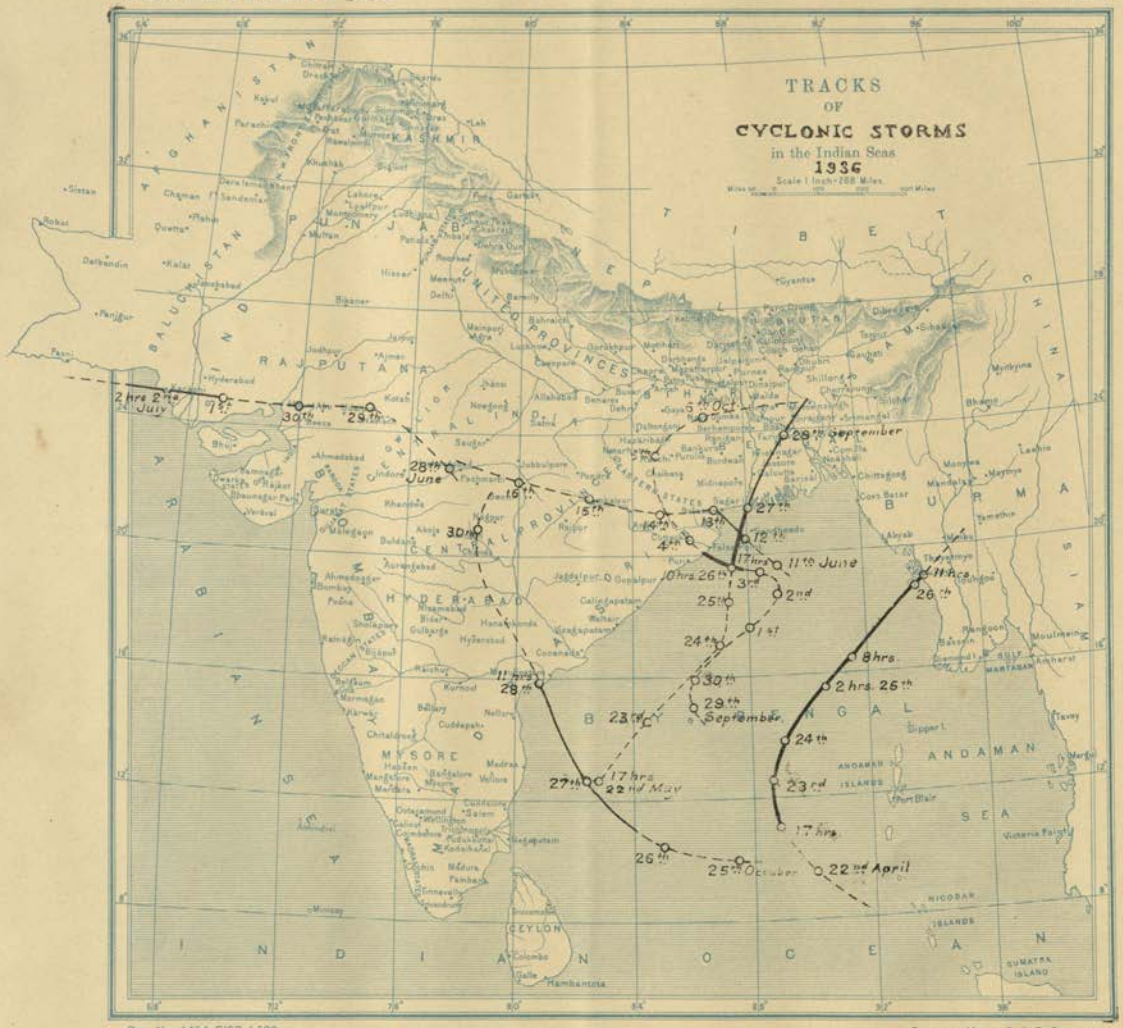
September 9th.—A severe thunderstorm accompanied with rain flooded the streets of Multan and damaged many houses. Several casualties occurred one man being reported killed.

September 12th.—A boy of fourteen, while taking shelter near a cow-shed in Shencottah during a thunderstorm, was struck dead by lightning.

WINDS OF FORCE NINE OR MORE IN INDIAN SEAS.

Excluding dates of storms and depressions, a description of which has been given above, winds of force nine or more were recorded on ships in the Indian Seas during the year 1936 on the following occasions :—

Date.	Name of ship.	Approximate position.	
		Lat. N.	Long. E.
		°	°
25th June . .	*S.S. City of Tokio* . .	17	72
26th June . .	*Ditto* . .	16	73
27th June . .	*S.S. Ranee* . . .	17	72
28th June . .	*S.S. City of Salisbury* .	13	85



Regn. No. 1454-E'37.1,500. ENGRAVED HELIO. S. I. O. CALCUTTA.

——— Severe Storm. ——— Storm. ----- Depression.

Regn. No. 1454 E.37. 1,500.

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9 SEP 1937
DGO. 9. 36. D.
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GOVERNMENT OF INDIA

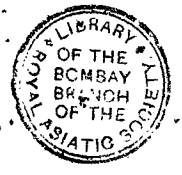
METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW, 1936

ANNUAL SUMMARY

PART D.

SEISMIC RECORDS.



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Published by Authority of the Government of India

UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.,

Director General of Observatories.

PUBLISHED BY THE MANAGER OF PUBLICATIONS, DELHI
PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, NEW DELHI
1937.

Price Rs. 5 As. 12 or 9sh. 6d.

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London Book Co. (India), Arbab Road, Peshawar, Murree, Nowshera, Rawalpindi.
London Book House, 17, Rajpur Road, Dehra Dun.
Malik & Sons, Sialkot City.
Messrs. U. P. Malhotra & Co., Post Box No. 94, Lahore.
Minerva Book Shop, Anarkali Street, Lahore.
Modern Book Depot, Bazar Road, Sialkot Cantt.
Modern Book Depot, Napier Road, Jullundur Cantt.
Mohanlal Dossabhai Shah, Rajkot.
Nandkishore & Bros., Chowk, Benares City.
New Book Co., "Kitab Mahal", 192, Hornby Road, Bombay.
Newman & Co., Ltd., Calcutta, Messrs. W.
Oxford Book and Stationery Company, Delhi, Lahore, Simla, Meerut and Calcutta.
Parikh & Co., Baroda, Messrs. B.
Pioneer Book Supply Co., 20, Shib Narayan Da: Lane, Calcutta and 219, Cloth Market, Delhi.
Popular Book Depot, Grant Road, Bombay.
Punjab Religious Book Society, Lahore.
Raghunath Prasad & Sons, Patna City.
Rama Krishna & Sons, Booksellers, Anarkali, Lahore.
Ram Krishna Bros., Opposite Bishrambag, Poona City.
Ram Narain Lal, Katra, Allahabad.
Ramesh Book Depot & Stationery Mart, Kashmere Gate, Delhi.
Ray & Sons, 43, K. & L. Edwardes Road, Rawalpindi, Murree and Peshawar, Messrs. J.
Roy Chowdhury & Co., 72, Harrison Road, Calcutta, Messrs. N. M.
Sarcar & Sons, 15, College Square, Calcutta, Messrs M.C.
Sarkar & Co., Ltd., 13, Shama Charan De Street, and 6, Hastings Street, Calcutta, Messrs. P. C.
Standard Bookstall, Karachi.
Standard Bookstall, Quetta.
Standard Book Depot, Lahore, Dalhousie and Delhi.
Standard Law Book Society, 69, Harrison Road, Calcutta.
Tara & Sons, Razmak (India), Messrs. B. S.
Taraporevala Sons & Co., Bombay, Messrs. D. B.
Thacker & Co., Ltd., Bombay.
Thacker, Spink & Co., Ltd., Calcutta and Simla.
Tripathi & Co., Booksellers, Princes Street, Kalbadevi Road, Bombay, Messrs. N. M.
University Book Agency, Kacheri Road, Lahore.
Upper India Publishing House, Ltd., Literature Palace, Ammuddaula Park, Lucknow.
Varadachary & Co., Madras, Messrs. P.
Venkatasubban, A., Law Bookseller, Vellore.
Wheeler & Co., Allahabad, Calcutta and Bombay, Messrs. A. H.
Young Man & Co. (Regd.), Egerton Road, Delhi.

* Agent for publications on Aviation only.

Errata to India Weather Review, 1936, Annual Summary, Part D.

Page.	Place.	*For.*	*Read.*
D 2	February 11, hour 4 51 20, 'phase' column	S	S*
D 3	March 2, 'remarks' column	PR	PR_1
D 6	July 26, hour 7 56 49, 'phase' column	P^1	P′
D 7	October 5, hour 6 18 37, 'phase' column	ePR,	ePR_1
D 19	November 19, hour 21 30 0, 'phase' column	P^1	P′
D 19	November 22, hour 18 38 52, 'phase' column	P^1	P′
D 20	December 26-27, hour 23 11 0, 'phase' column	P^1(?)	P′(?)
D 29	November 2, 'remarks' column	49°·5E	149°·5E
D 32	January 15, 'remarks' column	no	not
D 35	July 5, 'remarks' column	124°E	124°, 9E

INDIA WEATHER REVIEW, 1936.

ANNUAL SUMMARY.

PART D.

SEISMIC RECORDS.

STATION—UPPER AIR OBSERVATORY, AGRA.

Lat. 27° 8′ 15″ N. *Long.* 78° 0′ 45″ E. *Height above M. S. L.* 163 metres.

Lithologic Foundation:—Indo-Gangetic Alluvium.

Instruments:—Omori-Ewing Seismograph North-South (N) component, and Milne-Shaw Seismograph East-West (E) component, both installed in an underground room.

INSTRUMENTAL CONSTANTS.

Component	Steady mass (Kg.)	T (sec.)	Vm	ε	Paper speed (mm./min.)
N	45	32·5	29	1	12
E	0·47	12	250	20 : 1	8

TABLE D_1.

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.		1936.			H. M. S.	Sec.	μ	Km.	
Jan. 1	E	e	3 55 54	...	...	...		Jan. 14	E	iP	14 30 48	...	...	7700	
									E	PR_1	33 6	...	...	...	
„ 2	E	e	0 53 52	...	...	...			E	PR_2	34 58	...	...	...	
	E	Mn	1 11 9	25	44	...			E	iS	39 59	...	...	...	
„ 2	E	P	17 36 6	...	...	5790			E	PS	40 36	...	...	...	
	E	S	43 35	...	...	...			E	SR_1	14 11	...	...	...	
	E	PS	44 8	...	...	...			E	SR_2	47 32	...	...	...	
	E	SR_2	48 38	...	...	...			E	L	53 41	...	...	...	
	E	L	52 11	...	...	...									
„ 2	E	iP	22 41 5	...	...	3610		„ 14	E	e	17 54 46	...	...	7700	
	N, E	S	46 28	...	...	...			E	ePR₁	58 35	...	...	...	
	E	SR_1	48 33	...	...	...			E	iS	18 5 15	...	...	...	
	E	L	50 50	...	...	...			E	PS	5 55	...	...	...	
„ 7	E	e	1' 55 34	...	...	...			E	SR_2	12 55	...	...	...	
	E	i	57 27	...	...	...		„ 17	E	e	12 19 28	...	...	...	
„ 13	E	e	18 15 17	...	...	...			E	i	20 45	...	...	...	
	E	Mn	28 54	...	...	...									
								„ 20	E	iP	17 5 15	...	...	5355	
„ 14	E	e	5 56 23	...	...	...			E	i	5 33	...	...	...	
	E	i	6 12 43	...	...	...			E	i	7 27	...	...	...	

TABLE D_1—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
	E	iS	12 20	...	...	...	
	E	PS	12 56	...	...	...	
	E	SR_1	15 39	...	...	...	
	E	SR_2	16 49	...	...	...	
Jan. 24	E	e	16 54 47	...	...	...	
	E	F	17 28 53	...	...	...	
Feb. 4	E	e	12 17 1	...	...	...	Slight, near.
	E	i	17 32	...	...	...	
	E	F	30 ..	...	...	...	
,, 6	E	e	4 16 37	...	...	...	
7	E	iP	9 1 25	...	...	2520	iP in E. Epc: Lat. 32°N, Long.102°E (Manila).
	N	P					
	E	PR_1	1 46	...	...	...	
	N, E	iS	5 33	...	...	...	
	E	SR_1	6 34	...	...	...	
	E	L	7 46	...	...	...	
	E	F	12 18 ...	...	...	...	
,, 8	E	P	12 22 35	...	...	7790	
	E	ePR_1	25 5	...	...	...	
	E	iS	31 50	...	...	...	
	E	PS	32 20	...	...	...	
	E	SR_1	33 37	...	...	...	
	E	F	13 56 ...	...	...	...	
,, 10	E	e	18 23 39	...	...	...	
	E	i	28 56	...	...	...	
	E	F	19 32 ...	...	...	...	
,, 11	N	$\overline{F}$	4 50 17	...	...	720	Felt over a wide area in Bihar, parts of the United Provinces, Bengal and Nepal.
	N	S	51 0	...	...	...	
	N	S	51 20	...	...	...	
	N	$\overline{S}$	51 45	...	...	...	
	N	F	5 14 ...	...	...	...	
, 11	E	P	20 10 16	...	...	...	
	E	$\overline{P}$	11 21	...	...	1290	Felt in Assam and Bengal.
	E	S	12 16	...	...	...	
	N	e	12 23	...	...	...	
	E	S*	13 2	...	...	...	
	N, E	$\overline{S}$	13 36	...	...	...	
	E	F	32 ...	...	...	...	
,, 12	E	P	9 42 28	...	...	4590	
	E	iS	43 50	...	...	...	
	E	F	10 25 ...	...	...	...	
,, 15	N,E	iP	12 57 15	...	...	6665	
	N,E	PR_1	59 22	...	...	...	
	N,E	iS	13 5 34	...	...	...	
	E	PS	6 0	...	...	...	
1936.			H. M. S.	Sec.	μ	Km.	
	E	SR_1	9 39	...	...	...	
	E	F	16 40 ...	...	...	...	
Feb. 16	E	e	14 35 7	...	...	...	
	E	i	40 49	...	...	...	
,, 18	E	P	14 33 0	...	...	1135	
	E	$\overline{P}$	34 2	...	...	...	
	E	S	34 52	...	...	...	
	E	$\overline{S}$	36 7	...	...	...	
	E	F	15 15 ...	...	...	...	
,, 21	E	eP	6 24 29	...	...	2080	Time of incidence of various phases of the shock uncertain by ± 5 seconds.
	E	PR_1	24 41	...	...	...	
	N,E	S	28 1	...	...	...	
	E	SR_1	28 37	...	...	...	
	N	eL	29 29	...	...	...	
	N	Mn	31 39	14	26	...	
	E	Mn	33 54	11	18	...	
	N	F	55 ...	...	...	...	
	E	F	7 33 ...	...	...	...	
,, 21	E	eP	11 25 29	...	...	1190	Time of incidence of various phases of the shock uncertain by ± 5 seconds.
	E	eS	27 25	...	...	...	
	E	L	28 39	...	...	...	
	E	Mn	29 49	14	8	...	
	E	F	48 ...	...	...	...	
,, 21	E	eP	17 8 32	...	...	7690	Time uncertain by ± 5 seconds. Felt at Osaka in Japan.
	E	ePR_1	11 12	...	...	...	
	E	iS	17 42	...	...	...	
	E	PS	18 21	...	...	...	
	E	SR_1(?)	22 2	...	...	...	
	E	L	31 22	...	...	...	
,, 21	E	e	19 27 1	...	...	...	Time uncertain by ± 5 seconds. Tremors.
	E	F	40 ...	...	...	...	
,, 22	E	eP	15 46 31	...	...	11255	Time of incidence of various phases of the shock uncertain by ± 10 seconds.
	E	ePR_1	50 45	...	...	...	
	E	ScPcS	56 55	...	...	...	
	E	PPS	16 0 1	...	...	...	
	E	SR_1(?)	4 47	...	...	...	
	E	L(?)	20 5	...	...	...	
	E	Mn	32 22	19	44	...	
	E	F	19 11 ...	...	...	...	
,, 22	E	ePR_1	19 41 31	...	...	11255	Time uncertain by ± 10 seconds. Apparently an aftershock of the previous one.
	E	ScPcS	47 45	...	...	...	
	E	PPS	50 55	...	...	...	
	E	M	20 18 22	...	...	...	
	E	Mn	26 55	20	17	...	
	E	F	22 20 ...	...	...	...	
,, 24	E	e	5 43 13	...	...	...	
	E	i	44 57	...	...	...	
	E	F	6 0 ...	...	...	...	

TABLE D_1—*contd*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Feb. 24	E	e	7 4 13	...	...	...	
	E	F	35 ...	...	...	...	
,, 24	E	e	16 34 53	...	...	...	
	E	i	39 38	...	...	...	
	E	F	17 13 ...	...	...	...	
,, 27	E	iP	10 13 51	...	...	6165	
	N	P					
	E	PR_1	15 56	...	...	...	
	E	PR_2	17 6	...	...	...	
	N,E	iS	21 41	...	...	...	
	E	PS	22 44	...	...	...	
	E	iSR_1	24 39	...	...	...	
	E	SR_2	27 41	...	...	...	
	E	L	31 41	...	...	...	
	N	F	52 ...	...	...	...	
,, 27	E	e	17 9 41	...	...	...	
	E	F	17 ...	...	...	...	
,, 28	E	e	3 26 14	...	...	...	
	E	F	4 48 ...	...	...	...	
,, 28	E	eP	16 23 58	...	...	5190	
	E	S	30 53	...	...	...	
	E	eSR_1	33 53	...	...	...	
	E	SR_2	35 8	...	...	...	
	E	L	38 6	...	...	...	
	E	Mn	44 37	20	17	...	
	E	F	18 8 ...	...	...	..	
Mar. 1	E	eP	10 30 52	...	...	5550	Probably deep focus. Epc: South of Sakhalin Island. (Chiufung).
	E	iS	38 8	...	...	...	
	N	i	38 13	...	...	...	
	E	i	39 48	...	...	...	
	E	i	48 34	...	...	...	
	E	Mn	11 5 52	...	...	...	
	E	F	13 7 ...	...	...	...	
,, 2	E	iP	3 28 33	...	...	6145	From P and PR.
	N	P					
	E	iPR_1	30 40	...	...	...	
	E	ePR_2	31 37	...	...	...	
	N,E	S	36 21	...	...	...	
	E	PS	36 53	...	...	...	
	E	iSR_1	40 7	...	...	...	
	E	SR_2	41 56	...	...	...	
	E	L?	45 46	...	...	...	
	E	Mn	55 21	18	71	...	
	E	F	7 4 ...	...	...	...	
,, 2	E	e	20 3 15	...	...	...	Tremors.
	E	F	14 ...	...	...	...	
,, 6	E	e	12 20 14	...	...	...	Tremors.
	E	e	21 30	...	...	...	
	E	F	37 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Mar. 7	E	e	22 22 55	...	...	...	Tremors.
	E	F	29 ...	...	...	...	
,, 9	E	e	20 6 40	...	...	...	Slight, near.
	E	i	7 26	...	...	...	
	E	F	16 ...	...	...	...	
,, 11	E	e	11 3 23	...	...	...	Slight, near.
	E	i	7 33	...	...	...	
	E	F	36 ...	...	...	...	
,, 17	E	eP	19 55 54	...	...	3590	Primary waves poor. Epc: North Sumatra, (Batavia).
	E	S	20 1 16	...	...	...	
	E	SR_1	3 14	...	...	...	
	E	L	6 21	...	...	...	
	E	Mn	16 ...	15	9	...	
	E	F	21 34 ...	...	...	...	
,, 18	E	e	12 3 58	...	...	...	
	E	i	12 34	...	...	...	
,, 18	E	e	22 35 11	...	...	...	
	E	F	23 13 ...	...	...	...	
,, 21	E	eP	2 0 26	...	...	4835	
	E	S	7 3	...	...	...	
	E	SR_1	9 56	...	...	...	
	E	SR_2	10 51	...	...	...	
	E	L	13 28	...	...	...	
	E	Mn	16 10	15	20	...	
	E	F	3 28 ...	...	...	...	
,, 22	E	P	12 28 36	...	...	9210	Epc: South-West of Solomon Island, (Chiufung).
	E	iS	38 56	...	...	...	
	E	SR_1	44 41	...	...	...	
	E	SR_2	48 22	...	...	...	
	E	L(?)	57 22	...	...	...	
	E	F	14 27 ...	...	...	...	
,, 25	E	ei	9 10 41	...	...	8665	
	E	iS	20 37	...	...	...	
	E	PS	21 16	...	...	...	
	E	eSR_1	25 47	...	...	...	
	E	F	10 22 ...	...	...	...	
,, 25	E	i	14 27 50	...	...	...	
	E	F	37 ...	...	...	...	
Apr. 1	E	P	2 18 19	...	...	5700	Maximum at reflected secondary in B. Great. Epc: 3° N., 123° E. (U. S. A.). O: 2h. 9m. 16s. G. M. T.
	N,E	i	18 30	...	...	...	
	N,E	iPR_1	20 30	...	...	...	
	N,E	PR_2	21 18	...	...	...	
	N,E	iS	25 43	...	...	...	
	N	SR_1	29 21	...	...	...	
	N,E	SR_2	31 0	...	...	...	
	N	L	34 12	...	...	...	
	E	L	34 21	...	...	...	
	N	Mn	37 35	34	847	...	
	E	F	6 30 ...	...	...	...	

TABLE D$_1$—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Apr. 1	E	P	20 20 2	...	...	5500	
	E	PR$_1$	22 0	...	...	...	
	E	PR$_2$	22 45	...	...	...	
	E	iS	27 15	...	...	...	
	N	i	27 21	...	...	...	
	E	PS	27 50	...	...	...	
	E	SR$_1$	30 42	...	...	...	
	E	SR$_2$	32 8	...	...	...	
	E	L	35 27	...	...	...	
	E	M	40 10	...	...	...	
	N	Mn	46 16	19	26	...	
	E	Mn	47 30	17	25	...	
	E	F	22 31 ...	...	...	...	
,, 2	E	P	6 28 43	...	...	8450	
	E	PR$_1$ (?)	31 17	...	...	...	
	E	S	38 30	...	...	...	
	E	F	9 25 ...	...	...	...	
,, 11	E	e(P?)	4 2 17	...	...	...	
	E	i(S?)	6 42	...	...	...	
	E	F	27 ...	...	...	...	
,, 11-12	E	P	23 46 32	...	...	5365	
	E	iPR$_1$	48 25	...	...	...	
	E	PR$_2$	49 11	...	...	...	
	E	iS	53 37	...	...	...	
	E	iSR$_1$	56 47	...	...	...	
	E	SR$_2$	58 8	...	...	...	
	E	F	0 33 ...	...	...	...	
	E	P	21 0 59	...	...	6720	Epc :10°N., 140° E. (Manila).
	E	PR$_1$	3 11	...	...	...	
	E	S	9 21	...	...	...	
	E	iSR$_1$(?)	12 51	...	...	...	
,, 15	E	eP	6 14 33	...	...	5190	
	E	iS	21 28	...	...	...	
	E	PS	22 5	...	...	...	
	E	eSR$_2$	24 28	...	...	...	
	E	F	7 0 ...	...	...	...	
,, 15	E	e	19 5 41	...	...	...	
	E	i	13 51	...	...	...	
	E	F	20 3 ...	...	...	...	
,, 19	E	e	1 1 58	...	...	...	
	E	i	2 55	...	...	...	
	E	F	12 ...	...	...	...	
,, 19	N,E	P	5 19 40	...	...	9120	Epc: 9° S., 156° E. (U. S. A.). O : 5h. 7m. 12s. G. M. T.
	E	PR$_1$	22 49	...	...	...	
	E	PR$_2$	24 43	...	...	...	
	N,E	iS	29 56	...	...	...	
	N,E	SR$_1$	35 23	...	...	...	
	E	SR$_2$	38 57	...	...	...	
	N	L(?)	44 53	...	...	...	
	E	L(?)	46 40	...	...	...	
	E	F	Masked by the following shock.				
1936.			H. M. S.	Sec.	μ	Km.	
Apr. 19	E	iP	9 8 50	...	...	2445	
	N	eP					
	N,E	iS	12 51	...	...	...	
	N	L	14 40	...	...	...	
	N	M	16 21	...	...	...	
	N	Mn	17 4	26	321	...	
	E	Mn	20 56	17	110	...	
	N	F	11 6 ...	...	...	...	
	E	F	12 7 ...	...	...	...	
,, 20	E	e	18 17 45	...	...	...	
	E	F	19 1 0	...	...	...	
,, 21	E	e	1 41 56	...	...	...	
	E	e (S?)	45 31	...	...	...	
	E	F	Masked by the following shock.				
,, 21	E	P	2 19 14	...	...	2345	
	E	PR$_2$	19 47	...	...	...	
	E	S	23 7	...	...	...	
	E	SR$_1$	23 58	...	...	...	
	E	L(?)	25 4	...	...	...	
,, 22	E	i	10 35 22	...	...	...	
,, 23	E	P	23 26 13	...	...	8330	Epc: 51°N., 178°E. (U.S.A.)
	E	S	35 55	...	...	...	
,, 25	E	e	4 51 36	...	...	...	
,, 27	N	eP	0 4 8	...	...	2535	
	N	iS	8 17	...	...	...	
,, 27	E	iP	1 38 22	...	...	2490	
	E	iS	42 27	...	...	...	
	E	SR$_1$	43 21	...	...	...	
	E	F	2 30 ...	...	...	...	
,, 27	E	P	3 41 51	...	...	2520	
	E	eS	45 59	...	...	...	
	E	F	4 20 ...	...	...	...	
,, 27	E	e	4 57 36	...	...	...	
	E	F	5 11 ...	...	...	...	
,, 27	E	eP	5 47 36	...	...	2420	
	E	S	51 36	...	...	...	
	E	F	6 20 ...	...	...	...	
,, 27	E	i	8 11 7	...	...	...	Slight, near.
	E	i	11 40	...	...	...	
,, 28	E	eP	1 14 0	...	...	2610	
	E	S	18 15	...	...	...	
	E	F	38 ...	...	...	...	
,, 28	E	eP	5 51 49	...	...	9210	
	E	S	6 2 9	...	...	...	
	N	i	2 22	...	...	...	

TABLE D_1—*contd.*

Date.	Compt.	Phase.	G. M. T	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Apr. 28	E	iP	13 45 33	...	...	6170	
	E	S	53 23	...	...	...	
	N	i	53 28	...	...	...	
	E	F	14 40 ...	...	...	...	
,, 28	E	eP	18 32 27	...	...	2500	
	N,E	iS	36 33	...	...	...	
	E	SR_1	37 27	...	...	...	
	E	F	19 14 ...	...	...	...	
May 7	E	i	1 58 8	...	...	...	Slight, near.
	E	Mn	2 0 41	10	10	...	
	E	F	24 ...	...	...	...	
,, 8	E	e	2 54 10	...	...	...	Slight, near.
	E	i	54 40	...	...	...	
,, 8	E	i	9 20 59	...	...	...	
	E	iS	25 18	...	...	...	
,, 8	E	iP	15 29 17	...	...	2535	
	E	iS	33 26	...	...	...	
	E	SR_1	34 21	...	...	...	
	E	F	16 17 ...	...	...	...	
,, 10	E	i	4 30 18	...	...	...	Tremors.
,, 10	E	eP	6 0 15	...	...	...	
	E	e(S?)	3 13	...	...	...	
	E	F	34 ...	...	...	...	
,, 11	E	P	17 39 25	...	...	8650	Large waves poor. Epc : 4°S., 154°E. (Manila).
	E	PR_1	42 19	...	...	...	
	E	S	49 21	...	...	...	
	E	PS	49 53	...	...	...	
	E	SR_1	54 14	...	...	...	
,, 16	N	P	7 10 43	...	...	2410	Epc : Western China (Manila).
	N	S	14 42	...	...	...	
	N	SR_2	15 25	...	...	...	
,, 19	E	ePR_2	7 31 56	...	...	...	
	E	iS	36 12	...	...	...	
	E	SR_1	38 51	...	...	...	
	E	SR_2	39 27	...	...	...	
,, 19	E	eP	20 59 44	...	...	6080	Epc. 1°N., 141°E. (Manila).
	E	ePR_1	21 1 49	...	...	...	
	E	iS	7 29	...	...	...	
	E	PS	7 59	...	...	...	
	E	SR_2	13 2	...	...	...	
	E	F	Masked by the following shock.				
,, 19	E	i	21 32 29	...	...	...	
	E	e	43 49	...	...	...	
	E	i	45 24	...	...	...	
	E	F	23 26 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
May 20	E	e	0 25 55	...	...	...	
	E	e	29 49	...	...	...	
	E	F	Lost while changing chart.				
,, 20	E	P	3 17 57	...	...	9165	Epc. 3° S., 180° E. (J. S. A.).
	E	ePR_1	21 13	...	...	...	
	E	PR_2	22 55	...	...	...	
	E	iS	28 15	...	...	...	
	E	PS	29 2	...	...	...	
	E	SR_1	33 45	...	...	...	
	E	SR_2	37 13	...	...	...	
	E	L	45 11	...	...	...	
,, 27	E	iP	6 20 27	...	...	490	Shock felt over a wide area in Northern India. Epc : 28° N., 82°E.
	N	P					
	N,E	$\overline{P}$	20 50	...	...	...	
	N	S	21 23	...	...	...	
	N,E	$\overline{S}$	21 50	...	...	...	
	E	F	Masked by the following shock.				
,, 27	E	e	9 8 33	...	...	...	
	E	i	9 33	...	...	...	
,, 27	E	e	13 26 50	...	...	...	
	E	e	27 29	...	...	...	
,, 28	E	S?	19 30 27	...	...	...	
	E	SR_1	35 40	...	...	...	
	E	L(?)	46 15	...	...	...	
June 3	E	P	3 4 53	...	...	5555	
	E	S	12 15	...	...	...	
	E	PS	12 51	...	...	...	
	E	SR_2	17 3	...	...	...	
	E	F	4 8 ...	...	...	...	
,, 5	E	P	14 46 18	...	...	6655	Large waves poor.
	E	S	54 36	...	...	...	
	E	PS	55 6	...	...	...	
	E	SR_1	58 46	...	...	...	
	E	F	15 52 ...	...	...	...	
,, 9	E	P	16 43 7	...	...	...	
	E	S	48 23	...	...	...	
	E	SR_1	51 9	...	...	...	
	E	SR_2	52 13	...	...	...	
	E	F	18 33 ...	...	...	...	
,, 10	E	e	3 5 43	...	...	...	
	E	F	Masked by the following shock.				
,, 10	E	P	3 31 58	...	...	1390	
	E	eS	34 27	...	...	...	
	E	SR_1	34 48	...	...	...	
	N	i	34 53	...	...	...	

TABLE D_1—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
June 10	E	eP	8 34 41	...	...	8335	△ from Brunner's chart. Depth of focus about 100 kms.
	E	pP	35 21	...	...	...	
	E	S	43 56	...	...	...	
	E	PS(?)	44 35	...	...	...	
	E	sS	45 20	...	...	...	
	N	i	45 27	...	...	...	
,, 10	E	E	14 46 48	...	...	...	
	E	Mn	49 48	10	6	...	
	E	F	15 20 ...	...	...	...	
,, 10	E	eP	17 18 55	...	...	1265	
	E	S	16 13	...	...	...	
	N	e	16 26	...	...	...	
	E	L	16 58	...	...	...	
	E	M	17 58	...	...	...	
	E	Mn	19 50	9	27	...	
	E	F	18 18 ...	...	...	...	
,, 11	E	eP	9 46 32	...	...	1235	
	E	eS	48 47	...	...	...	
,, 15	E	e	7 58 41	...	...	...	
	E	i	8 1 21	...	...	...	
,, 16	E	e	15 27 36	...	...	...	
	E	i	29 41	...	...	...	
	E	F	52 24	...	...	...	
,, 18	E	P	14 58 55	...	...	1145	Felt at different parts of North and East Bengal.
		$\overline{P}$	15 0 5	...	...	...	
		S	0 55	...	...	...	
		$\overline{S}$	2 14	...	...	...	
,, 19	E	P	16 38 33	...	...	1710	
	E	PR_1	38 47	...	...	...	
	E	S	41 33	...	...	...	
	E	SR_1	41 56	...	...	...	
	E	F	17 32 ...	...	...	...	
,, 29	N	P	14 32 41	...	...	1100	Peshawar shaken. Also felt at different parts of the Punjab.
	N	S	34 39	...	...	...	
,, 30	N, E	iP	15 17 17	...	...	7035	Epc: 51° N., 161° E (J. S. A.)
	E	PR_1	19 43	...	...	...	
	E	PR_2	21 5	...	...	...	
	N, E	iS	15 25 56	...	...	...	
	N	PS	26 29	...	...	...	
	E	SR_1	30 16	...	...	...	
	E	SR_2	32 23	...	...	...	
	N	M	43 35	...	...	...	
	E	F	19 26 ...	...	...	...	
,, 30	E	iP	19 29 57	...	...	1900	
	N, E	S	33 14	...	...	...	
	E	L	35 25	...	...	...	
	N	F	20 1 0	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
July 1	E	e	16 55 47	...	...	...	
	E	i	57 31	...	...	...	
,, 3	E	i	3 21 53	...	...	...	
,, 4	E	P	9 3 4	...	...	3090	
	E	ePR_1	3 46	...	...	...	
	E	PR_2	4 4	...	...	...	
	E	iS	7 54	...	...	...	
	E	SR_1	9 12	...	...	...	
	E	L	11 5	...	...	...	
,, 5	E	iP	19 4 12	...	...	5565	△ from Brunner chart. Depth of focus about 90 kms.
	N	eP					
	E	pP	4 31	...	...	...	
	E	iPR_1	6 27	...	...	...	Epc: 4° S., 124° E. (J. S. A.)
	N, E	iS	11 16	...	...	...	
	E	sS	11 49	...	...	...	
,, 13	N, E	eP	11 31 59	...	...	17010	Epc: 23° 0 S., 70° 2 W. (J. S. A.).
	E	ScPcP	35 34	...	...	...	
	E	iPR_2	39 17	...	...	...	
	E	ScPcPcS	42 32	...	...	...	
	E	P ScPcS	46 1	...	...	...	
	E	PPS	49 2	...	...	...	
	E	SR_1	55 12	...	...	...	
	E	SR2	12 1 15	...	...	...	
	E	F	Lost as the drum driving clock had stopped.				
,, 22	E	P	9 0 31	...	...	835	
	E	P*	0 56	...	...	...	
	E	$\overline{P}$	1 18	...	...	...	
	E	S	2 1	...	...	...	
	E	S*	2 31	...	...	...	
	E	F	Lost while changing chart.				
,, 26	E	P^1	7 56 49	...	...	17010	Probably an after-shock of the earthquake of 13th July tabulated above. Epc: 22·8 S., 70·8 W. (J. S. A.).
	E	ScPcP	8 0 17	...	...	...	
	E	PR2	4 6	...	...	...	
	E	ScPc PcS	7 18	...	...	...	
	E	P ScPcS	10 44	...	...	...	
	E	PPS	13 48	...	...	...	
	E	F	10 21 ...	...	...	...	
Aug. 4	E	eP	14 17 3	...	...	4390	Epc: 19° N., 121° E. (Manila).
	E	PR2	18 56	...	...	...	
	E	S	23 11	...	...	...	
	E	SR2	26 25	...	...	...	
	E	F	15 13 ...	...	...	...	
,, 14	E	e	22 13 40	...	...	...	
	E	F	23 55 ...	...	...	...	
,, 16	E	e	16 51 27	...	...	...	
	E	F	17 9 ...	...	...	...	
,, 16	E	e	21 41 36	...	...	...	
	E	e	45 39	...	...	...	

TABLE D_1—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Aug. 17	E	i	14 12 33	...	...	...	Deep focus ?
	E	i	22 14	...	...	...	
	E	F	16 14 ...	...	...	...	
,, 18	E	e	0 12 52	...	...	...	Slight, near.
	E	e	13 36	...	...	...	
,, 22	E	iP	6 59 2	...	...	4000	Epc : 22°·3 N., 121°·5 E. Formosa Island.
	N	e	59 56	...	...	...	
	E	PR2	7 0 40	...	...	...	
	E	iS	4 49	...	...	...	
	N	e	4 58	...	...	...	
	E	SR2	7 27	...	...	...	
,, 23	E	e	20 57 3	...	...	...	
	E	F	Masked by the following shock.				
,, 23	N, E	P	21 17 55	...	...	3000	Great. Maximum in secondary.
	N	i	22 25	...	...	...	Epc: 5°·8 N., 95°·4 E. (J. S. A.) Off North Sumatra.
	E	iS	22 38	...	...	...	
	N	Mn	26 39	29	509	...	
,, 24	E	e	22 37 17	...	..	...	Distant slight shock.
	E	i	46 35	...	...	...	
	E	F	Lost while changing chart.				
,, 29	E	eP	12 44 49	...	...	1200	Slight.
	E	S	47 1	...	...	...	
	E	F	13 21 ...	...	...	...	
Sept. 4	E	P	8 19 9	...	...	6020	
	E	iS	26 51	...	...	...	
	E	PS	27 24	...	...	...	
	E	SR_1	30 36	...	...	...	
	E	Mn	46 35	16	12	...	
,, 8	E	iP	8 13 35	...	...	565	Slight, near.
	E	P*	13 48	...	...	...	
	N	e	14 33	...	...	...	
	E	S	14 38	...	...	...	
	E	$\overline{S}$	15 14	...	...	...	
	E	F	32 ...	...	...	...	
,, 12	E	e	18 12 32	...	...	...	
,, 18	E	P	18 48 1	...	...	6020	
	E	ePR_2	51 5	...	...	...	
	E	S	55 43	...	...	...	
	E	PS	56 15	...	...	...	
	E	SR_1	59 42	...	...	...	
	E	Mn	19 17 12	14	9	...	
,, 19	E	i	1 23 35	...	...	...	Great. Earlier portion missed.
	E	F	5 17 ...	...	...	...	
,, 19	E	eP	6 36 31	...	...	3110	
	E	ePR_1	37 9	...	...	...	
	E	S	41 22	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936			H. M. S.	Sec.	μ	km.	
	E	SR_1	42 51	...	...	...	
	E	L	44 40	...	...	...	
	E	Mn	49 18	19	34	...	
	E	F	8 42 ...	...	...	...	
Sept. 21	E	i	11 50 21	...	...	...	
,, 25	E	e	13 22 23	..	...	...	
	E	F	14 30 ...	...	...	...	
Oct. 3	E	P	21 59 1	...	...	5345	Epc : Celebes Sea.
	E	pP(?)	59 11	...	...	...	O : 21h. 59m. 20s. G. M. T.
	E	PR_1	22 1 7	...	...	...	
	E	iS	6 5	...	...	...	
	E	sS(?)	6 29	...	...	...	
	E	SR_1	9 53	...	...	...	
	E	F	23 40 ...	...	...	...	
,, 5	E	i	0 18 55	...	...	...	
	E	P	6 16 54	...	...	4980	
	E	ePR_1	18 37	...	...	...	
	E	S	23 37	...	...	...	
	E	eSR_1	26 41	...	...	...	
,, 5	E	P	9 53 31	...	...	5620	Epc : 3°N., 126°·4E. (J. S. A.).
	N	e	53 36	...	...	...	O : 9h. 44m. 38s. G. M. T.
	E	PR_1	55 27	...	...	...	
	E	PR_2	56 18	...	...	...	
	E	iS	10 0 51	...	...	...	
	N	i	0 56	...	...	...	
	E	SR_1	4 18	...	...	...	
	E	SR_2	5 43	...	...	...	
	E	L	9 22	...	...	...	
	E	F	13 14 ...	...	...	...	
,, 16	E	i	12 8 34	...	...	...	
	E	i	18 35	...	...	...	
,, 18	E	e	16 44 49	...	...	...	
	E	F	17 34 ...	...	...	...	
,, 19	E	P	12 13 47	...	...	6010	Epc : Off Celebes.
	E	iS	21 28	...	...	...	
	E	PS	22 2	...	...	...	
	E	SR_1	25 14	...	...	...	
	E	SR_2	26 48	...	...	...	
	E	L (?)	30 50	...	...	...	
,, 20	E	i	22 14 52	...	...	...	Slight shock. Felt at Gujrat in the Punjab.
	E	F	25 ...	...	...	...	
,, 23	E	eP	6 36 47	...	...	9020	Epc : 60°·8N, 149°·4 W.
	N	e	36 53	...	...	...	(J. S. A.), Alaska.
	N, E	ePR_1	39 57	...	...	...	O: 6h. 24m. 24s. G. M. T.
	N, E	S	46 57	...	...	...	
	E	PS	47 37	...	...	...	
	E	F	9 57 ...	...	...	...	

TABLE D_1—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Oct. 26	E	eP	19 38 49	...	...	3555	Epc: West of Malay Peninsula. O: 19h. 32m. 18s. G. M. T.
	E	iS	44 8	...	...	...	
	E	SR_1	45 59	...	...	...	
	E	L	48 12	...	...	...	
„ 26	E	i	23 24 37	...	...	...	
	E	i	31 27	...	...	...	
„ 29	E	iP	18 49 23	...	...	6790	Epc: 13·5°N., 145°E. Damage in Guam. O: 18h. 39m. 8s. G. M. T.
	E	iS	57 49	...	...	...	
	E	PS	58 13	...	...	...	
	E	SR_1	19 1 58	...	...	...	
	E	F	21 59 ...	...	...	...	
Nov. 1	E	i	2 58 33	...	...	...	
	E	F	3 16 ...	...	...	...	
„ 4	E	e	7 36 33	...	...	...	
12	E	i	2 34 33	...	...	...	
	E	e	8 38 57	...	...	...	
	E	e	20 14 22	...	...	...	
	E	i	22 7	...	...	...	
	E	F	21 15 ...	...	...	...	
„ 13	N	P	12 42 8	...	...	7235	Epc: 56°N., 165°E. (Strasbourg). O: 12h. 31m. 29s. G. M. T.
	E	iP					
	E	PR_1	44 35	...	...	...	
	E	PR_2	45 57	...	...	...	
	E	iS	50 58	...	...	...	
	N	i	51 8	...	...	...	
	E	PS	51 27	...	...	...	
	E	SR_1	55 33	...	...	...	
	E	SR_2	57 53	...	...	...	
	E	L (?)	13 2 7	...	...	...	
	N	L (?)	2 56	...	...	...	
	E	Mn	13 47	15	168	...	
	N	Mn	16 9	18	412	...	
	E	F	16 59 ...	...	...	...	
„ 14	E	e	4 36 37	...	...	...	
	E	e	10 5 45	...	...	...	
	E	e	14 49 5	...	...	...	
	E	F	16 4 ...	...	...	...	
	E	e	19 47 39	...	...	...	
	E	F	20 44 ...	...	...	...	
„ 15	E	i	22 17 32	...	...	...	Slight, distant.
	E	F	23 52 ...	...	...	...	
„ 18	E	e	15 59 8	...	...	...	
	E	i	16 3 38	...	...	...	
	E	Mn	16 32	15	5	...	
	E	F	17 8 ...	...	...	...	
„ 19	E	i'	21 29 53	...	...	15300	Epc: 14°N., 91°W. (U. S. C. G. S.).
	E	ScPcP	33 18	...	...	...	
	E	SR_2	55 53	...	...	...	
	E	Mn	22 37 44	21	22	...	
	E	F	23 59 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Nov. 22	E	eP' (?)	18 38 45	...	...	15820	Epc: 14°N., 90°W. (U. S. C. G. S.) O: 18h. 19m. 17s] G. M. T.
	E	ScPcP (?)	42 15	...	...	...	
	E	F	21 1 ...	...	...	...	
„ 23	N	eP	1 32 18	...	...	800	Epc: 28·5°N., 85°E. North of Nepal. O: 1h. 30m. 28s. G. M. T.
	E	P					
	E	P*	32 45	...	...	...	
	E	P (?)	33 10	...	...	...	
	N, E	S	33 45	...	...	...	
	N, E	S*	34 13	...	...	...	
	N, E	S (?)	34 33	...	...	...	
	N	Mn	36 7	10	23	...	
	E	Mn	36 7	8	27	...	
	N, E	F	Lost while changing chatr.				
„ 23	E	e	15 50 21	...	...	...	Slight, near.
	E	i	51 2	...	...	...	
	E	F	16 5 ...	...	...	...	
„ 29	E	e	4 16 31	...	...	...	
	E	i	19 8	...	...	...	
	E	F	37 ...	...	...	...	
„ 29	E	i	8 50 27	...	...	...	
„ 29	E	e	22 58 41	...	...	...	
	E	e	59 43	...	...	...	
	E	e	23 3 39	...	...	...	
	E	F	57 ...	...	...	...	
„ 30	E	e	2 51 46	...	...	...	
	E	i	52 34	...	...	...	
	E	F	55 ...	...	...	...	
„ 30	E	e	7 6 43	...	...	...	
	E	e	7 8	...	...	...	
	E	F	11 ...	...	...	...	
„ 30	E	P	23 55 17	...	...	5900	Large waves poor. Epc: near Celebes Islands. O: 23h. 46m. 6s. G. M. T.
Dec. 1	E	iPR_1	57 19	...	...	...	
	E	ePR_2	58 12	...	...	...	
	E	iS	0 2 52	...	...	...	
	E	PS	3 16	...	...	...	
	E	SR_1	6 30	...	...	...	
	E	SR_2	8 4	...	...	...	
„ 1	E	i	6 16 58	...	...	...	
	E	i	23 8	...	...	...	
	E	F	7 43 ...	...	...	...	
„ 3	E	e	20 1 33	...	...	...	
	E	eS (?)	7 26	...	...	...	
	E	F	40 ...	...	...	...	
„ 7	E	e	3 7 24	...	...	...	Tremors.
	E	F	11 ...	...	...	...	
„ 7	E	e	7 21 24	...	...	...	Tremors.
	E	i	22 19	...	...	...	
	E	F	25 ...	...	...	...	

TABLE D_1—*concld.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.		1936.			H. M. S.	Sec.	μ	Km.	
Dec. 8	E	eP	10 32 56	...	...	5090	Large waves poor.	Dec. 21	E	e	19 29 48	...	...	...	Slight, distant.
	E	S	39 46	...	...	...									
	E	eSR_1	42 45	...	...	...		„ 22	E	e	8 2 6	...	...	...	Tremors.
	E	SR_2	43 5†	...	...	..			E	F	6 ...	...	...	...	
„ 9	E	e	14 51 57	...	...	...									
	E	i	53 13	...	...	...		„ 26	E	PR_1	23 12 4	...	...	13000	Epc : North off New Zealand (Chiufeng).
	E	F	15 19 ...	...	...	...			E	ScPcS	17 51	...	...	...	
									E	PS	21 47	...	...	...	
„ 13	E	iP	21 41 17	...	...	6845	Epc : Near 19° N., 141° E., near Caroline Islands. O : 21h. 31m. 5s. G. M. T.		E	PPS	23 6	...	...	...	
	E	ePR_1	43 45	...	...	...			E	SR_1	28 19	...	...	...	
	E	ePR_2	44 56	...	...	...			E	SR_2	32 41	...	...	...	
	E	S	49 46	...	...	...			E	F	Masked by the following shock.				
	E	eSR_1	54 0	...	...	...									
	E	SR_2	56 1	...	...	...		„ 27	E	e	0 23 57	...	...	...	
									E	e	30 57	...	...	...	
„ 14	E	e	4 11 18	...	...	5170									
	E	PR_2	12 57	...	...	...		„ 27	E	e	2 29 23	...	...	...	
	E	S	17 29	...	...	...			E	F	Lost while changing chart.				
	E	SR_1	20 35	...	...	...									
	E	F	5 29 ...	...	...	...									
								„ 29	E	iP	14 59 44	...	...	8610	Large waves poor. Epc : 0°5° S., 149° E.
„ 20	E	P	18 37 14	...	...	4455	Epc: South Sumatra. O : 18h. 29m. 35s. G. M. T.		E	PR_1	15 2 36	...	...	...	
	E	S	43 29	...	...	...			E	PR_2	4 31	...	...	...	
	E	i	43 52	...	...	...			E	iS	9 38	...	...	...	
	E	eSR_1	46 44	...	...	...			E	PS	10 21	...	...	...	
	E	SR_2	47 47	...	...	...			E	SR_1	15 16	...	...	...	

G. CHATTERJEE,

Meteorologist-in-charge, Upper Air Observatory, Agra.

STATION—COLABA OBSERVATORY, BOMBAY.

Lat. 18° 54′ N. *Long.* 72° 54′ E. *Height above M. S. L.* 6 metres.

Lithologic foundation : Trap Rock.

Instruments :—Milne-Shaw seismographs, North-South (N) and East-West (E) components, installed in an underground constant temperature room. Photographic registration.

INSTRUMENTAL CONSTANTS.

Component.	Steady mass (Kg.)	T. (sec.).	Vm	ε	Paper speed (mm./min.).
N	0·45	12	250	20 : 1	8
E	0·45	12	350	22 : 1	8

TABLE D_2.

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1936.							
Jan. 1	N,E	e	4 1 ...	...	...	...	Tremors.
	N,E	F	4 16 ...	...	...	...	
„ 2	N	e	0 48 20	...	...	...	Slight, distant.
	E	Mn	1 16 20	23	10	...	
	N,E	F	2 0 ...	...	...	...	
„ 2	N,E	e	17 36 2	...	...	...	Slight.
	N,E	i	43 36	...	...	...	
	E	Mn	18 4 32	15	5	...	
	N,E	F	54 ...	...	...	...	
„ 2	N,E	iP	22 40 55	...	...	3355	Moderate. Epc : 1° S., 97° E., North Sumatra.
	N,E	iS	46 2	...	...	...	
	N,E	SR_1	47 : 2	...	...	...	
	N,E	L	49 47	...	...	...	
	N	Mn	54 8	15	37	...	
	N,E	F	2 5 ...	...	...	...	
„ 4	N,E	i	1 13 5	...	...	...	Feeble near.
	N,E	F	30 ...	...	...	...	
„ 7	N,E	i	12 0 24	...	...	...	Feeble. Felt at Drosh.
„ 8	N,E	e	11 5 ...	...	...	...	Tremors.
	N,E	F	38 ...	...	...	...	
„ 8	N,E	e	12 39 ...	...	...	...	Tremors.
	N	F	13 20 ...	...	...	...	
	E	F	14 ...	...	...	...	
„ 13	N,E	eP	18 15 49	...	...	2810	Slight.
	N,E	iS	20 19	...	...	...	
	E	SR_1	21 11	...	...	...	
	E	L	22 27	...	...	...	
	N	Mn	27 19	...	..	...	
	E	Mn	26 49	...	...	...	
	N,E	F	19 56 ...	...	...	...	
„ 14	N,E	e	5 55 20	...	...	...	Slight, distant.
	N,E	i	6 4 49	...	...	...	
	N,E	F	8 28 ...	...	...	...	
1936.							
Jan. 14	N,E	e	14 30 33	...	...	...	Slight, distant.
	N,E	i	34 16	...	...	...	Deep focus. L-Waves poor.
	N,E	F	16 18 ...	...	...	...	
„ 14	N,E	e	17 55 ...	...	...	...	Slight, distant.
	N,E	i	18 5 30	...	...	...	
	E	Mn	44 14	15	5	...	
	N,E	F	19 56 ...	...	...	...	
„ 15	N,E	e	14 57 ...	...	...	...	Slight, distant.
	N,E	F	16 41 ...	...	...	...	
„ 17	N,E	e	12 19 11	...	...	...	Slight, near.
	N,E	e	23 3	...	...	...	
	N	Mn	26 44	...	...	...	
	E	Mn	26 30	10	3	...	
	N,E	F	59 ...	...	...	...	
„ 20	N	eP	17 5 43	...	...	5720	Moderate. Focal depth = 100 km. from Brunner chart.
	E	iP					
	N,E	iS	13 8	...	...	...	
	N,E	PS	13 42	...	...	...	
	N,E	SR2	18 6	...	...	...	
	N,E	L	22 ...	...	...	...	
	N,E	F	19 19 ...	...	...	...	
„ 22	N,E	e	9 32 35	...	...	...	Seismic activity.
	N,E	F	10 18 ...	...	...	...	
„ 24	N,E	e	16 56 4	...	...	...	Seismic activity.
„ 27	N,E	e	10 41 ...	...	...	...	Feeble.
	N,E	F	11 1 ...	...	...	...	Felt at Purnea, (Bihar).
„ 27	N,E	e	16 27 28	...	...	...	Seismic movement.
	E	e	29 35	...	...	...	
„ 27	N,E	e	19 36 35	...	...	...	Slight.
	N,E	e	41 29	...	...	...	
	N,E	F	20 21 ...	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.		1936.			H. M. S.	Sec.	μ	Km.	
Feb. 4	E	e	12 22 18	...	...	...	Feeble, near. Felt at Muktesvar.		N	Mn	25 5	19	37	...	
	E	i	22 36	...	...	...	N-time uncertain.		E	Mn	25 20	23	74	...	
	E	M	24 17	...	...	...			N	F	17 5 ...	...	...	...	
	E	F	36 ...	...	...	...			E	F	36 ...	...	...	...	
,, 6	N,E	e	4 11 ...	...	...	...	Slight, very distant.	Feb. 16	N,E	e	14 31 ...	...	...	...	Tremors.
	N,E	e	16 9	...	...	...			N,E	F	15 36 ...	...	...	...	
, 6	N,E	e	20 51 ...	...	...	...	Feeble, distant.	,, 19	N,E	eP	14 35 3	...	...	2155	Slight.
	N,E	e	55 30	...	...	...			N,E	iS	38 38	...	...	...	
	N,E	F	21 55 ...	...	...	...			N,E	L	40 36	...	...	...	
,, 7	N,E	M	2 2 30	...	...	...	Seismic activity.		N	Mn	43 1	7	15	...	
									E	Mn	43 10	7	11	...	
,, 7	N,E	iP	9 2 53	...	...	3310	Moderate. Epc. 32° N-102° E. (Manila), South China.		N,E	F	15 35 ...	...	...	...	
	N,E	iS	7 57	...	...	...		,, 19	N,E	e	8 32 ...	...	...	...	Tremors.
	E	SR_1(?)	9 20	...	...	...			N,E	F	48 ...	...	...	...	
	N,E	L	11 ...	...	...	...									
	N	Mn	13 56	10	69	...		,, 21	N,E	e	1 18 ...	...	...	...	Feeble.
	E	Mn	16 8	10	55	...			N,E	i	25 52	...	...	...	
	N,E	F	11 27 ...	...	...	...			N	Mn	45 47	...	...	...	
									E	Mn	45 57	...	...	...	
,, 8	E	i	12 23 0	...	...	...	Slight. N-time uncertain.		N	F	2 19 ...	...	...	...	
	E	i	32 30	...	...	...			E	F	2 25 ...	...	...	...	
	E	F	13 47 ...	...	...	...									
								,, 21	N,E	iP	6 25 41	...	...	2520	Slight.
, 10	E	e	18 24 15	...	...	...	Seismic activity. N-time uncertain.		N,E	iS	29 49	...	...	...	
	E	F	19 43 ...	...	...	...			E	SR_1	30 44	...	...	...	
,, 11	N,E	eP	4 51 20	...	...	1440	Moderate. Felt at Dumka, Motihari.		N,E	L	32 38	...	...	...	
	N,E	iS	53 54	...	...	...			N	Mn	37 20	...	...	...	
	N,E	SR_2	54 16	...	...	...			E	Mn	37 16	11	7	...	
	N,E	L	55 ...	...	...	...			N,E	F	7 56 ...	...	...	...	
	N	Mn	55 53	3	30	...		,, 21	N,E	e	11 0 ...	...	...	...	Feeble, distant.
	E	Mn	55 53	4	11	...			N	Mn	35 18	...	...	...	
	N	F	5 39 ...	...	...	...			E	Mn	35 32	...	...	...	
	E	F	35 ...	...	...	...			N,E	F	12 55 ...	...	...	...	
,, 11	E	e	20 11 52	...	...	...	Feeble, near. Felt at Cooch Behar, Dhubri, Gauhati and Salona.	,, 21	N,E	e	17 9 ...	...	...	...	Feeble, distant.
	E	i	15 13	...	...	...			N	Mn	53 34	...	...	...	
	E	F	21 41 ...	...	...	...			E	Mn	53 27	...	...	...	
									N,E	F	18 55 ...	...	...	...	
,, 12	N,E	i	9 42 30	...	...	...	Feeble, very distant.								
	N,E	i	48 53	...	...	...		,, 21	N,E	e	19 29 ...	...	...	...	Tremors.
	N,E	i	51 18	...	...	...			N,E	F	55 ...	...	...	...	
	N,E	F	11 51 ...	...	...	...									
,, 14	N,E	e	14 47 ...	...	...	...	Feeble, near. Felt at Shillong.	,, 22	N, E	e	15 46 33	...	...	11665	Moderate.
									N, E	PR_1	50 39	...	...	...	
,, 15	N,E	iP	12 57 32	...	...	6380	Moderate. Epc. 4·5° S., 133°·0 E. (J. S. A.), Dutch New Guinea.		N, E	ScPcS	56 55	...	...	...	
	N,E	PR_1	59 53	...	...	...			N, E	PS	59 55	...	...	...	
	N,E	iS	13 6 3	...	...	...			N, E	SR_1	16 5 30	...	...	...	
	N,E	PS	6 37	...	...	...			N, E	SR_2	9 31	...	...	...	
	N,E	sS	7 5	...	...	...			N, E	L	15 0	...	...	...	
	N,E	SR_1	10 24	...	...	...			N	Mn	27 9	...	...	...	
	N,E	SR_2	12 44	...	...	...			E	Mn	24 41	23	27	...	
	N,E	L	13 17 ...	...	...	...			N, E	F	18 53 ...	...	...	...	

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1936.							
Feb. 22	N, E	e	19 41 24	...	...	...	
	N, E	i	47 45	...	...	...	
	N, E	I	50 35	...	...	...	
	N	Mn	20 25 42	...	...	..	
	E	Mn	22 41	...	...	...	
	N, E	F	21 55 ...	...	...	...	
,, 24	N, E	e	5 32 ...	...	..	...	Feeble, near.
	N, E	F	6 2 ...	...	...	...	
,, 24	N,E	e	7 5 ...	...	...	...	
	N,E	i	9 30	...	...	...	
	N	Mn	15 12	...	...	...	
	E	Mn	16 39	...	...	...	
	N,E	F	54 ...	...	...	...	
,, 24	N,E	e	16 35 ...	...	...	...	Feeble, near.
	N,E	i	39 40	...	...	...	
	N,E	F	17 5 ...	...	...	...	
,, 26	N,E	e	2 46 ...	...	...	...	Tremors.
	N,E	F	3 55 ...	...	...	...	
,, 27	N,E	iP	10 14 2	...	...	6235	Slight.
	N,E	iS	21 56	...	...	...	
	N,E	i	22 56	...	...	...	
	N,E	F	11 55 ...	...	...	...	
,, 28	N	Mn	4 3 24	...	...	...	Seismic activity.
	E	Mn	3 34	...	...	...	
,, 28	N,E	eP	16 24 3	...	...	5045	Slight.
	N,E	S	30 55	...	...	...	
	N,E	SR_1	33 54	...	...	...	
	N,E	L	38 ...	...	...	...	
	E	Mn	44 22	15	7	...	
	N, E	F	17 56 ...	...	...	...	
Mar. 1	N	eP	10 32 3	...	...	6455	Moderate. Epc: South of Sakhal in Island. (Chiufeng).
	N, E	iS	40 10	...	...	...	
	N, E	SR_2	47 26	...	...	...	
	N	Mn	11 1 24	22	34	...	
	E	Mn	2 48	19	23	...	
	N, E	F	13 9 ...	...	...	...	
,, 2	N, E	iP	3 29 7	...	...	7245	Moderate. Epc: East off Hokkaido, Japan. (Manila).
	N, E	iS	38 27	...	...	...	
	N, E	SR_1	43 00	...	...	...	
	N, E	L	51 ...	...	...	...	
	N	Mn	4 0 30	15	14	...	
	E	Mn	0 37	15	15	...	
	N, E	F	6 34 ...	...	...	...	
,, 9	N, E	e	20 41 ...	...	...	...	Tremors.
	N, E	F	1 54 ...	...	...	...	
,, 10	N, E	e	20 46 28	...	...	...	Slight, distant.
	E	Mn	21 17 21	...	...	...	
	N, E	F	22 1 ...	...	...	...	

Date.	Compt.	Phase	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1936.							
Mar. 11	N, E	e	0 40 ...	...	...	...	Tremors.
	N, E	F	2 2 ...	...	...	...	
,, 11	N, E	i	11 9 2	...	...	...	Seismic activity.
,, 13	E	e	4 24 ...	...	...	...	Tremors.
	N, E	F	5 13 ...	...	...	...	
,, 17	E	e	18 19	...	...	...	Tremors.
	E	F	51 ...	...	...	...	
,, 17	N,E	eP	19 55 54	...	...	3170	Slight. Epc: North Sumatra, (Batavia).
	N,E	iS	20 0 49	...	...	...	
	N,E	i	3 4	...	...	...	
	E	Mn	14 27	...	...	...	
	N,E	F	21 36 ...	...	...	...	
,, 18	N,E	e	12 5 ...	...	...	...	Tremors.
	N,E	F	13 14 ...	...	...	...	
,, 18	N,E	e	22 30 ...	...	...	...	Tremors.
	N,E	F	23 8 ...	...	...	...	
,, 19	E	M	1 5 30	...	...	...	Seismic activity.
,, 21	N,E	e	1 59 28	...	...	...	Slight.
	N	i	2 5 0	...	...	...	
	E	Mn	13 23	13	7	...	
	N,E	F	3 35 ...	...	...	...	
,, 22	N,E	P	12 28 58	...	...	9390	Slight. Epc: South-west of Solomon Islands (Chiufeng).
	N,E	S	39 26	...	...	...	
	N,E	F	14 56 ...	...	...	...	
,, 25	N,E	e	9 11 ...	...	...	...	Tremors.
	NE	F	10 15 ...	...	...	...	
,, 25	N,E	e	14 29 ...	...		...	Tremors.
	E	e	32 13	...	...	...	
	N,E	F	54 ...	...	...	...	
Apr. 1	N,E	eP	2 18 46	...	...	6090	Great. Epc: 3° N., 123° E. (J. S. A). O: 2h. 9m. 16s. G. M. T
	N,E	iP	18 52	...	...	...	
	N,E	PR_1	21 01	...	...	...	
	N,E	PR_2	21 56	...	...	...	
	N,E	S	26 28	...	...	...	
	N,E	PS	27 1	...	...	...	
	N,E	SR_1	30 3	...	...	...	
	N,E	SR_2	32 0	...	...	...	
	N,E	L	35 ...	...	...	...	
	N	Mn	39 45	18	95	...	
	E	Mn	38 20	26	446	...	
	N	F	6 14 ...	...	...	...	
	E	F	6 17 ...	...	...	...	
,, 1	N	iP	20 20 32	...	...	5950	Moderate. Preceded by tremors.
	N	iS	28 8	...	...	...	Apparently aftershock of previous great shock.

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
	N	Mn	48 17	...	...	...	
	N	F	22 10 ...	...	...	...	
Apr. 2	N	eP	6 29 8	...	...	8230	
	N	iS	38 45	...	...	...	
	N	F	8 59 ...	..	...	...	
,, 5	N	Mn	13 14 37	...	...	...	Seismic activity.
	E	Mn	14 45	...	...	...	
,, 9	N,E	e	0 56 ...	...	...	...	Tremors.
	N,E	F	1 18 ...	...	...	...	
,, 9	N	e	16 16 ...	...	...	...	Tremors.
	N	F	17 56 ...	...	...	...	
,, 9	N,E	e	20 17 ...	...	...	...	Slight, near.
	N	Mn	24 45	...	...	...	
	E	Mn	24 30	...	...	...	
	N,E	F	45 ...	...	...	...	
,, 11	N	e	4 1 ...	...	...	...	Feeble, near.
	E	i	0 52	...	...	...	
	E	Mn	7 29	...	...	...	
	N	F	32 ...	...	...	...	
	E	F	47 ...	...	...	...	
,, 11	E	i	23 46 9	...	...	...	Feeble, near.
	N,E	e	47 53	...	...	...	
	E	F	53 16	...	...	...	
	N	F	0 29 ...	...	...	...	
			25 ...	...	...	...	
,, 12	N,E	P	21 1 29	...	...	6980	Slight. Epc : 10° N., 140° E. (Manila).
	N,E	iS	10 5	...	...	...	
	N,E	SR_1	14 33	...	...	...	
	N,E	SR_2	16 41	...	...	...	
	N,E	L	22 ...	...	...	...	
	N	Mn	34 33	15	7	...	
	E	Mn	34 9	22	16	...	
	N,E	F	23 55 ...	...	...	...	
,, 17	N,E	i	22 19 28	...	...	...	Seismic activity.
,, 19	N,E	iP	5 20 0	...	...	9520	Great. Epc : 9° S., 156° E. (J. S. A.). 0 : 5h. 7m. 12s. G. M. T.
	N,E	iS	30 34	...	...	...	
	N,E	PS	31 20	...	...	...	
	N,E	SR_1	36 20	...	...	...	
	E	SR_2	39 38	...	...	...	
	N,E	L	49 ...	...	...	...	
	N	Mn	6 1 23	19	47	...	
	E	Mn	57 53	25	112	...	
	N,E		Masked by the following shock.				
,, 19	N,E	iP	9 8 50	...	...	2535	Moderate.
	N,E	PR_1	9 14	...	...	...	Epc : Probably Gulf of Martaban.
	N,E	iS	12 59	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
	N,E	SR_1	13 59	...	...	...	
	N,E	L	15 29	...	...	...	
	N	Mn	21 10	15	50	...	
	E	Mn	21 38	15	38	...	
	N,E	F	12 5 ...	...	...	...	
Apr. 20	N,E	e	18 10 ...	...	...	...	Tremors.
	N,E	F	19 1 ...	...	...	...	
,, 21	N,E	i	1 41 40	...	...	...	
	N,E	F	3 2 ...	...	...	...	
,, 23	N,E	P	23 27 5	...	...	9550	Slight. Epc : 51°N., 178° E. (J. S. A.).
	N,E	PR_1	30 30	...	...	...	
	N,E	S	37 40	...	...	...	
	N,E	F	0 36 ...	...	...	...	
,, 27	N, E	eP	0 5 15	...	...	3265	Slight.
	N, E	iS	10 16	...	...	...	
	N, E	SR_1	11 44	...	...	...	
	N, E	F	Masked by the following tremors.				
,, 27	N, E	e	3 48 ...	...	...	...	Tremors.
	N	F	4 13 ...	...	...	...	
,, 27	N, E	e	5 51 ...	...	...	...	Tremors.
	N	e	59 ...	...	...	...	
	N, E	F	6 11 ...	...	...	...	
,, 27	N, E	e	8 16 ...	...	...	...	Feeble, near.
	N, E	F	28 ...	...	...	...	
,, 28	N, E	i	5 52 5	...	...	...	Feeble, distant.
	E	i	6 2 34	...	...	...	
	N, E	F	7 27 ...	...	...	...	
,, 28	E	i	13 45 42	...	...	...	Slight.
	E	i	48 2	...	...	...	
	N, E	i	53 41	...	...	...	
	N, E	F	14 56 ...	...	...	...	
,, 28	N, E	e	18 38 ...	...	...	...	Tremors.
	N, E	F	19 8 ...	...	...	...	
May. 2	N, E	e	7 26 ...	...	...	...	Tremors.
	N, E	F	40 ...	...	...	...	
,, 4	N	M	18 45 15	...	...	...	Seismic activity.
	E	M	45 18	...	...	...	
,, 5	E	e	19 55 ...	...	...	...	Feeble.
	N, E	e	20 5 5	...	...	...	
	N, E	F	20 58 ...	...	...	...	
,, 6	N, E	e	19 0 30	...	...	...	Feeble, near.
	E	Mn	5 18	...	...	...	
	N	Mn	5 21	...	...	...	
	N, E	F	26 ...	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
May. 8	N, E	e	2 56 0	...	...	...	Feeble seismic activity.
	N, E	e	59 32	...	...	...	
,, 8	N, E	i	9 21 00	...	...	...	Feeble, distant.
	N, E	i	25 18	...	...	...	
	N, E	F	10 11 ...	...	...	...	
,, 8	N, E	e	15 30 30	...	...	...	Feeble, distant.
	N, E	e	35 28	...	...	...	
	N, E	F	16 11 ...	...	...	...	
,, 10	E	i	6 1 30	...	...	...	Slight, distant. N. record disturbed.
	E	e	5 37	...	...	...	
		F	34 ...	...	...	...	
,, 11	N, E	eP	17 39 45	...	...	9055	Slight. Epc : 4° S., 154° E. (Manila).
	N, E	eS	49 58	...	...	...	
	E	SR_1 (?)	55 49	...	...	...	
	N, E	L	18 8 ...	...	...	...	
	N	F	19 31 ...	...	...	...	
	E	F	41 ...	...	...	...	
,, 16	N, E	e	6 56 ...	...	...	...	Foreshock of the following shock?
	N, E	F	Mixed up with the following shock.				
,, 16	N, E	P	7 11 53	...	...	3155	Moderate.
	N, E	PE_1	13 0	...	...	...	Epc : Western China. (Manila)
	N, E	iS	16 47	...	...	...	
	N, E	SE_1	18 11	...	...	...	
	N, E	L	21 ...	...	...	...	
	N	Mn	25 15	...	...	...	
	E	Mn	24 7	12	45	...	
	N, E	F	9 21 ...	...	...	...	
,, 19	N, E	eP	20 59 49	...	...	6170	Slight. Epc : 1° N., 141° E. (Manila).
	N, E	S	21 7 39	...	...	...	
	N, E	F	23 13 ...	...	...	...	
,, 20	N, E	eP	3 18 15	...	...	9620	Slight. Epc : 8° S., 160° E. (J. S. A.).
	E	PR_1	22 0	...	...	...	
	N, E	S	28 53	...	...	...	
	N, E	pS	29 36	...	...	...	
	N, E	L	50 ...	...	...	...	
	E	Mn	4 7 33	16	6	...	
	N, E	F	6 24 ...	...	...	...	
,, 22	E	Mn	1 30 31	...	...	...	Seismic activity.
,, 27	N, E	iP	6 22 24	...	...	1455	Great. Epc: Bihar, 28°N., 82°E. Felt throughout Bihar including Monghyr, Bhagalpur, Muzaffarpur, Arrah, Chapra, Cawnpore, Ranchi, New Delhi, Lucknow, Patna.
	N, E	P*	22 58	...	...	...	
	N, E	$\overline{P}$	23 36	...	...	...	
	N, E	S	24 49	...	...	...	
	N, E	S*	25 34	...	...	...	
	N, E	$\overline{S}$	26 19	...	...	...	
	N	Mn	28 17	9	441	...	
	E	Mn	28 ...	...	...	...	
	N, E	F	Masked by microseisms.				

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
May. 28	N	Mn	20 19 28	18	7	...	Slight, very distant.
	E	Mn	15 28	21	13	...	
	N, E	F	Masked by microseisms.				
,, 30	N	e	7 15 37	...	...	...	Felt at Dhubri, Serajganj, Jamalpur, Siliguri, Gaibandha, Berhampur, Mymensingh, Maldah and Jalpaiguri.
	N	F	8 4 ...	...	...	...	
Jun. 3	E	M	3 38 30	...	...	...	Seismic activity.
,, 3	E	M	10 28 30	...	...	...	Seismic activity.
,, 9	N, E	e	00 7 ...	...	...	1270	Slight. After shock of the Great shock of 27th May. Felt at Khatmandu, Darjeeling, Patna, Purnea.
		S	9 7	...	...	...	
		S*	9 43	...	...	...	
		$\overline{S}$	10 23	...	...	...	
		F	Mixed up with microseisms.				
,, 9	N	M	8 35 29	...	...	...	Feeble, near.
	E	M	35 44	...	...	...	
	N, E	F	Mixed up with microseisms.				
,, 9	N, E	P	16 42 56	...	...	3310	Slight. Epc : Near 3°S, 95°E (Manila).
	N, E	S	48 00	...	...	...	
	N, E	SR_1	49 37	...	...	...	
	N, E	L	51 39	...	...	...	
	N	M	57 47	15	4	...	
	E	Mn	58 15	14	4	...	
	N	F	18 21 ...	...	...	...	
	E	F	Overlapping of lines.				
,, 10	N	Mn	3 11 37	...	...	...	Seismic activity.
	E	Mn	11 16	...	...	...	
,, 10	E	e	3 27 30	...	...	2665	Slight.
	N, E	S	31 45	...	...	...	Beginning doubtful.
	E	SR_1	32 45	...	...	...	
	E	L	34 ...	...	...	...	
	E	Mn	37 17	15	28	...	
	N, E	F	4 44 ...	...	...	...	
,, 10	N, E	i	8 35 45	...	...	...	Slight, distant.
	N, E	i	44 34	...	...	...	Deep focus.
	N, E	i	45 49	...	...	...	
	N	F	10 58 ...	...	...	...	
	E	F	11 0 ...	...	...	...	
,, 10	N, E	e	14 46 ...	...	...	...	Tremors.
	N	F	15 13 ...	...	...	...	E-congestion of lines.
,, 10	N, E	e	17 11 ...	...	...	...	Feeble.
	N	F	18 01 ...	...	...	...	
,, 11	N, E	e	9 48 55	...	...	...	Slight, near.
	N, E	e	48 47	...	...	...	
	N, E	F	10 31 ...	...	...	...	
,, 14	N	Mn	3 14 30	...	...	...	Seismic activity
	E	Mn	15 35	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ.	Km	
Jun. 14	N	i	17 8 51	...	...	...	Feeble, distant.
	N	i	14 35	...	...	...	
	N	F	18 8 ...	...	...	...	
„ 16	N	Mn	15 32 52	...	...	...	Seismic activity.
	N	Mn	33 13	...	...	...	
„ 18	N, E	eP	15 00 32	...	...	1745	Slight. Felt locally at Jalpaiguri.
	N, E	eS	03 35	...	...	...	
	N, E	L	5 23	...	...	...	
	N	Mn	5 51	3	18	...	
	N, E	F	Masked by microseisms.				
„ 19	N, E	iP	16 39 58	...	...	2520	Slight.
	N, E	PR_1	40 20	...	...	...	
	N, E	iS	44 6	...	...	...	
	N	L	46 ...	...	...	...	
	N	Mn	50 30	10	10	...	
	N, E	F	Masked by microseisms.				
„ 29	N, E	iP	14 34 04	...	...	1880	Slight. Epc: North-West Frontier. Focal depth 80 km. and △ =18° from Brunner chart. Felt locally at Lahore.
	N, E	P*	35 04	...	...	...	
	N, E	iS	37 19	...	...	...	
	N, E	S	39 36	...	...	...	
	N	Mn	41 39	7	12	...	
	E	Mn	41 42	7	9	...	
	N, E	F	15 44 ...	...	...	...	
„ 30	N, E	iP	15 18 22	...	...	8100	Moderate. Deep focus. Epc: 51°N., 161° E. (J. S. A.)
	N, E	PR_1	21 1	...	...	...	
	N, E	PR_2	22 50	...	...	...	
	N, E	iS	27 53	...	...	...	
	N, E	PS	28 26	...	...	...	
	N, E	SR_1	33 0	...	...	...	
	N, E	L	42 ...	...	...	...	
	N	Mn	48 23	22	432	...	
	E	Mn	53 4	22	223	...	Time uncertain on accountof faint trace.
	N, E	F	18 34 ...	...	...	...	
„ 30	N, E	iP	19 30 18	...	...	2165	Slight. Epc: *Persia*, 33° N., 59° E.
	N, E	PR_2	30 46	...	...	...	
	N, E	eS	33 57	...	...	...	
	N, E	SR_1	34 46	...	...	...	
	N, E	L	36 ...	...	...	...	
	N	Mn	40 34	11	13	...	
	E	Mn	41 13	10	12	...	
	N, E	F	Masked by microseisms.				
July 1	N	M	17 0 33	...	...	...	Feeble, near.
	E	M	0 52	...	...	...	
„ 4	N	i	9 7 44	...	...	...	Slight, near.
	N	i	9 53	...	...	...	
„ 5	N, E	P	19 4 37	...	...	5680	Moderate. Surface waves poor. Depth of focus about 80 Km.
	N, E	pP	4 58	...	...	...	
	N, E	PR_2	6 57	...	...	...	
	N, E	iS	12 0	...	...	...	Epc: 4°·0N., 124·9° E. (J. S. A.).
	N, E	eS	12 37	...	...	...	
	N, E	ScS	14 18	...	...	...	
	E	SR_2	17 0	...	...	...	
	N, E	L	20 ...	...	...	...	
		F	Masked by microseisms.				
Jul. 6	N, E	e	18 36 30	...	...	...	Feeble, distant.
	E	M	57 23	...	...	...	
„ 13	N, E	PR_2	11 38 55	...	...	16445	Moderate. Epc: 23·0° S., 70·2° W. (J. S. A.) Beginning lost due to failure of electric current.
	E	ScPc PcS	42 21	...	...	...	
	E	P ScPcS	45 37	...	...	...	
	E	PPS	48 13	...	...	...	
	E	SR_2	54 11	...	...	...	
	N, E	L	12 22 ...	...	...	...	
	N	Mn	44 30	23	104	...	
	E	Mn	32 53	23	170	...	
	N	F	16 4 ...	...	...	...	
	E	F	8 ...	...	...	...	
„ 15	E	M	12 32 7	...	...	...	Seismic activity.
„ 22	N, E	e	9 3 ...	...	...	...	Feeble, near. Felt locally at Jacobabad.
„ 23	N, E	e	7 19 ...	...	...	...	Tremors.
	N, E	F	8 20 ...	...	...	...	
„ 26	N, E	P	7 56 52	...	...	15780	Slight.
	E	PR_1	59 50	...	...	...	
	E	PR_2	8 3 14	...	...	...	
	E	ScPc PcS	6 37	...	...	...	
	N, E	P ScPcS	10 8	...	...	...	
	E	PPS	12 44	...	...	...	
	E	SR_1	19 15	...	...	...	
	N, E	L	46 ...	...	...	...	
	N	Mn	9 0 23	21	13	...	
	E	Mn	8 59 8	21	27	...	
	N, E	F	Masked by microseisms.				
„ 28	N	e	5 30 ...	...	...	...	Feeble, very distant.
	E	e	29 53	...	...	...	
	N	i	39 15	...	...	...	
„ 28	E	i	8 4 8	...	...	...	Feeble, distant.
	N, E	i	13 24	...	...	...	
„ 31	N	e	11 36 15	...	...	...	Seismic activity.
Aug. 1	N, E	eP	6 32 0	...	...	3780	Slight. Epc: Kanau, China (Nanking).
	N, E	S	36 21	...	...	...	
	N, E	SR_1	38 12	...	...	...	
	N, E	L	40 46	...	...	...	
	N	Mn	43 1	11	18	...	
	E	Mn	43 53	15	13	...	
	N, E	F	6 40 ...	...	...	...	
„ 2	N	e	2 23 ...	...	...	...	Tremors.
	N	F	43 ...	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Aug. 4	E	e	14 19 52	...	...	...	Slight, distant.
	N	e	20 ...	...	...	...	
	N, E	i	24 37	...	...	...	
	N	Mn	39 32	...	...	...	
	E	Mn	42 5	15	5	...	
	N, E	F	15 8 ...	...	...	...	
,, 8	N	M	4 41 30	...	...	...	Seismic activity.
	E	Mn	46 37	...	...	...	
,, 9	E	Mn	16 39 28	...	...	...	Seismic activity.
,, 13	N, E	iP	20 11 57	...	...	6010	Moderate. Epc: 8° N., 127° E. (Manila).
	N, E	PR_1	13 50	...	...	...	
	N, E	S	19 38	...	...	...	
	N, E	L	27 0	...	...	...	
	N	Mn	39 50	19	16	...	
	E	Mn	39 12	19	23	...	
	N	F	22 16 ...	...	...	...	
,, 14	N, E	e	22 44 15	...	...	...	Slight, distant.
	N, E	e	51 50	...	...	...	
	E	Mn	23 11 26	...	...	...	
	N, E	F	56 ...	...	...	...	
,, 16	N, E	e	16 51 ...	...	...	...	Tremors.
	N, E	F	17 12 ...	...	...	...	
,, 16	N, E	e	21 44 53	...	...	...	Seismic activity.
	N, E	F	22 4 ...	...	...	...	
,, 17	N, E	e	14 13 0	...	...	...	Slight, distant.
	N, E	e	22 45	...	...	...	
	N, E	F	15 52 ...	...	...	...	
,, 18	N, E	e	13 23 37	...	...	...	Seismis activity.
,, 20	E	e	2 15 ...	...	...	...	Tremors.
	N, E	F	51 ...	...	...	...	
,, 20	N	e	23 37 7	...	...	...	Feeble, near.
	E	i	39 57	...	...	...	
	N	i	40 3	...	...	..	
,, 22	N, E	P	6 59 54	...	...	4865	Moderate. Epc: 22°·3 N., 121°·5 E. (J. S. A.), Formosa Island.
	N, E	S	6 31	...	...	...	
	N	SR_1	9 43	...	...	...	
	N, E	SR_2	10 35	...	...	...	
	N, E	L	13 ...	...	...	...	
	N	Mn	19 17	15	75	...	
	E	Mn	20 37	15	56	...	
	F		Mixed up with the following tremor.				
,, 22	N, E	e	11 24 ...	...	...	...	Tremors.
	N, E	F	56 ...	...	...	...	
,, 23	N, E	e	20 51 ...	...	...	...	Feeble shock.
	N, E	i	55 12	...	...	...	
	N, E	F	Mixed up with the following shock.				

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Aug. 23	N, E	iP	21 17 35	...	...	2819	Moderate. Epc: 5°·8 N., 95°·4 E. (J. S. A.), Off North Sumatra.
	N, E	PR_1	18 11	...	...	...	
	N, E	iS	22 5	...	...	...	
	N, E	SR_1	23 13	...	...	...	
	N, E	L	25 ...	...	...	...	
	N	Mn	27 19	17	226	...	
	E	Mn	27 37	14	145	...	
	N, E	F	01 09 ...	...	...	...	
,, 24	N	e	22 46 0	...	...	...	Feeble, distant.
	N	Mn	23 10 46	...	...	...	
	N	F	0 7 ...	...	...	...	
,, 26	E	Mn	22 58 22	...	...	...	Seismic activity.
	N	Mn	23 1 14	...	...	...	
,, 27	E	i	3 10 15	...	...	...	Feeble, near.
	N, E	i	13 26	...	...	...	
	N	F	40 ...	...	...	...	
	E	F	43 ...	...	...	...	
,, 28	N, E	e	7 2 ...	...	...	...	Seismic Activity,
,, 29	N, E	e	12 46 23	...	...	...	Feeble. Near.
	N, E	e	50 12	...	...	...	
	N, E	F	13 11 ...	...	...	...	
,, 29	N, E	i	22 25 59	...	...	...	Slight.
	N, E	i	29 30	...	...	...	
	E	Mn	32 35	15	5	...	
	N, E	F	23 25 ...	...	...	...	
Sept. 4.	N, E	eP	8 20 00	...	...	6950	Slight, Epc; Japan (Manila).
	N, E	S	28 35	...	...	...	
	N	Mn	51 43	...	...	...	
	E	Mn	51 35	...	...	...	
	E	F	10 21 ...	...	...	...	
	N	F	18 ...	...	...	...	
,, 6	N, E	e	18 5 ...	...	...	...	Feeble, distant.
	E	M	51 25	...	...	...	
	N, E	F	19 32 ...	...	...	...	
,, 7	N, E	i	2 35 18	...	...	...	Slight, near.
	N, E	i	38 50	...	...	...	
	N, E	L	41 ...	...	...	...	
	N	Mn	44 15	7	6	...	
	E	Mn	42 39	8	3	...	
	N, E	F	Masked by microseisms.				
,, 7	N	M	9 6 11	...	...	...	Seismic activity.
	E	M	4 13	...	...	...	
,, 8	N, E	e	8 18 34	...	...	...	
	N, E	i	18 59	...	...	...	
	N, E	F	Masked by microseisms.				
,, 12	N, E	e	18 18 ...	...	...	...	Slight.
	N	Mn	26 10	...	...	...	
	E	M	28 7	...	...	...	
	N, E	F	46 ...	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1936.							
Sept. 18	N,E	e	18 49 ...	...	...	...	
	E	e	57 29	...	...	...	
	N,E	e	59 ...	...	...	...	
	N	M	23 12	...	...	...	
	E	M	23 14	...	...	...	
	N,E	F	20 26 ...	...	...	...	
„ 19	N,E	eP	1 7 43	...	...	3145	Moderate. Epc: North Sumatra 42° N., 97 8 E. (J. S. A.)
	N,E	PR_1	8 33	...	...	...	
	N,E	PR_2	8 53	...	...	...	
	N,E	PcP	11 3	...	...	...	
	N,E	S	12 37	...	...	...	
	N,E	SR_1	13 2	...	...	...	
	N,E	L	15 ...	...	...	...	
	N	ScS	17 26	...	...	...	
	N	Mn	20 8	15	104	...	
	E	Mn	18 56	19	165	...	
	N,E	F	5 21 ..	...	...	...	
„ 19	N,E	eP	6 36 19	...	...	3035	Slight.
	N,E	PR_1	36 59	...	...	...	
	N,E	iS	41 5	...	...	...	
	N,E	SR_1	42 31	...	...	...	
	N,E	L	45 ...	...	...	...	
	N	Mn	55 22	14	12	...	
	E	Mn	51 36	12	8	...	
	N,E	F	8 37 ...	...	...	...	
„ 21	N,E	e	11 49 ...	...	...	...	Slight, distant.
	E	Mn	12 7 11	...	...	...	
	N,E	F	47 ...	...	...	...	
„ 24	N,E	e	8 39 ...	...	...	...	Slight.
	N,E	F	9 19	...	...	...	
„ 25	N,E	e	13 13 ...	...	...	...	Slight, distant.
	N	F	14 27 ...	...	...	...	
	E	F	52 ...	...	...	...	
Oct 3-4	N,E	iP	21 59 25	...	...	5700	Moderate. Epc: Celebes Sea. 0: 21h. 50m. 20s. G. M. T.
	N,E	PcP.	22 0 40	...	...	...	
	N,E	iS	6 49	...	...	...	
	N,E	PS	7 02	...	...	...	
	N,E	SR2	11 16	...	...	...	
	N	Mn	27 32	15	10	...	
	E	Mn	28 2	15	17	...	
	N	F	23 56 ...	...	...	...	
	E	F	00 16 ...	...	...	...	
„ 4	E	e	7 47 ...	...	...	...	Slight, distant.
	E	Mn	8 13 27	...	...	...	
	E	F	42 ...	...	...	...	
„ 5	N,E	e	0 13 22	...	...	...	Slight, very distant.
	N,E	i	0 23 0	...	...	...	
	N	Mn	1 3 18	23	9	...	
	E	Mn	2 8	19	11	...	
Oct. 5	N,E	e	6 17 23	...	...	...	Slight, distant.
	N,E	i	24 27	...	...	...	
	N	Mn	41 22	...	...	...	
	E	Mn	41 30	...	...	...	
	N	F	7 00 ...	...	...	...	
	E	F	7 00 ...	...	...	...	
„ 5	E	iP	9 53 53	...	...	5810	Moderate. Epc: 3° N. 126·4° E (J, S, A.), 0: 9h. 44m .85s. G. M, T,
	N	P					
	N,E	PR_1	56 00	...	...	...	
	E	PR_2	57 7	...	...	...	
	N,E	iS	10 1 25	...	...	...	
	N,E	ScS	2 39	...	...	...	
	E	SR_1	5 11	...	...	...	
	E	SR_2	6 30	...	...	...	
	N,E	L	11 00	...	...	...	
	N	Mn	19 30	15	14	...	
	E	Mn	16 30	23	138	...	
	N	F	11 53 ...	...	...	...	
	E	F	13 24 ...	...	...	...	
„ 10	N,E	e	3 18 ...	...	...	...	Tremors.
		F	4 15 ...	...	...	...	
„ 13	N,E	e	6 42 ...	...	...	...	Tremors.
	E	F	7 39 ...	...	...	...	
	N	F	29 ...	...	...	...	
„ 14	E	e	22 33 ...	...	...	...	Tremors.
		F	23 46 ...	...	...	...	
„ 15	N,E	i	21 28 24	...	...	...	Slight, distant.
	E	Mn	22 31 23	15	5	...	
	E	F	23 24 ...	...	...	...	
„ 16	N,E	iP	12 8 56	...	...	9100	Slight.
	N,E	iS	19 11	...	...	...	
	E	PS	19 40	...	...	...	
		L	35 ...	...	...	...	
		F	13 51 ...	...	...	...	
„ 19	E	iP	12 14 0	...	...	6080	Slight. Epc: Off Celebes.
	N	eP					
	N,E	iS	21 45	...	...	...	
	N,E	PS	22 15	...	...	...	
	E	ScS	23 49	...	...	...	
	N,E	L	30 ...	...	...	...	
	N	F	14 17 ...	...	...	...	
	E	F	15 15 ...	...	...	...	
„ 20	N,E	e	22 14 30	...	...	...	Slight
	N,E	i	15 10	...	...	...	
	N,E	i	18 5	...	...	...	
	N	F	45 ...	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1936.							
Oct. 21	E	i	1 7 24	...	...	...	Slight.
	E	i	2 4 8	...	...	...	
	E	F	30 ...	...	...	...	
,, 21	N, E	e	5 32 45	...	...	...	Feebie, distant.
	N, E	F	6 26 ...	...	...	...	
,, 22	N, E	e	10 20 ...	...	...	...	Tremors.
	N, E	F	40 ...	...	...	...	
,, 22	N, E	e	22 5 45	...	...	...	Tremors.
		F	23 9 ...	...	...	...	
,, 23	N, E	e	0 20 ...	...	...	...	Tremors.
	N, E	F	1 3 ...	...	...	...	
,, 23	E	eP	6 37 27	...	...	10220	Moderate, N-Boom Was not free.
		PR_1	41 13	...	...	...	Epc : 60·8° N., 149·4° W, (J. S, A) Alaska, O : 6h. 24m. 24s. G. M. T.
		e	45 4	...	...	...	
		ScPcS	48 0	...	...	...	
		PPS	50 21	...	...	...	
		SR_1	55 07	...	...	...	
		L	7 8 0	...	...	...	
		Mn	15 58	21	31	...	
		F	10 13 ...	...	...	...	
,, 25	N, E	e	15 40 30	...	...	...	Seismic activity.
	N, E	i	48 42	...	...	...	
,, 26	N, E	P	19 38 35	...	...	3500	Moderate, Epc : West of Malay Peninsulu. O : 19h. 32m. 18s. G. M. T.
	N, E	iS	43 51	...	...	...	
	N, E	SR_1	45 22	...	...	...	
	N, E	L	48 ...	...	...	...	
	N	Mn	53 29	14	16	...	
	E	Mn	52 44	15	17	...	
	N, E		Mixed up with microseisms.				
,, 28	N, E	e	23 17 ...	...	...	...	Slight, distant.
	N, E	e	26 ..	...	...	...	
,, 29	N, E	eP	18 50 0	...	...	7500	Slight. Epc : 13·6° N., 145° E. Damage in Guam, O : 18h. 39m. 8s. G. M. T.
	E	PR_1	52 11	...	...	...	
	N, E	S	59 2	...	...	...	
	N, E	ScS	59 53	...	...	...	
	N, E	SR_1	19 3 16	...	...	...	
	E	Mn	20 24	15	8	...	
	N	F	21 38 ...	...	...	...	
	E	F	58 ...	...	...	...	
,, 30	N, E	e	14 27 20	...	...	...	Seismic activity.
,, 31	N	M	16 10 37	...	...	...	Seismic activity.
	E	M	16 8 37	...	...	...	
Nov. 1	N, E	e	17 20 ...	...	...	...	Feeble.
	N, E	F	18 8 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Nov. 2	N, E	iP	15 9 4	...	...	7690	Moderate.
	N, E	PcP	9 20	...	...	...	Epc : 48·5° N., 149·5 E : Near Kurile Islands. O : 14h. 58m. 2s. G. M. T.
	N, E	iS	18 14	...	...	...	
	N, E	SR_1	23 22	...	...	...	
	N, E	L	32 ...	...	...	...	
	N	Mn	41 33	16	40	...	
	E	Mn	41 54	15	54	...	
	N	F	18 32 ...	...	...	...	
	E	F	59 ...	...	...	...	
,, 2	N, E	iP	20 56 19	...	...	6710	Moderate,
	N, E	PcP	57 7	...	...	...	Epc : 41° N., 139° E, Destructive in Fukuyama, Japan, Kew △ = 33·5°
	N, E	S	21 4 40	...	...	...	
	N, E	PS	5 6	...	...	...	O : 20h. 46 m. 11s. G. M. T.
	N, E	ScS	6 4	...	...	...	
	N, E	SR_1	8 52	...	...	...	
	N, E	L	16 ...	...	...	...	
	N	Mn	23 16	21	131	...	
	E	Mn	23 46	23	207	...	
	N	F	0 37 ...	...	..	...	
	E	F	1 00 ...	...	...	...	
,, 3	N, E	e	5 3 ...	...	...	...	Feeble.
	E	M	25 34	...	...	...	
	N, E	F	50 ...	...	...	...	
,, 4	N, E	e	7 29 ...	...	...	...	Feeble.
	N, E	e	36 ...	...	...	...	
	E	M	46 44	...	...	...	
	N, E	F	8 35 ...	...	...	...	
,, 4	N	e	9 19 ...	...	...	...	Feeble.
	E	M	33 28	...	...	...	
	N, E	F	50 ...	...	...	...	
,, 4	N, E	e	13 55 ...	...	...	...	Feeble.
	N	F	14 25 ...	...	...	...	
	E	F	41 ...	...	...	...	
,, 5	N, E	e	23 38 ...	...	...	...	Feeble.
	N, E	e	40 ...	...	...	...	
	N, E	F	48 ...	...	...	...	
,, 9	N, E	e	14 10 ...	...	...	...	Feeble.
	N, E	F	55 ...	...	...	...	
,, 10	N	M	13 30 43	...	...	...	Seismic activity.
	E	M	31 15	...	...	...	
,, 10	N, E	M	17 49 30	...	...	...	Seismic activity.
,, 10	N, E	e	17 57 ...	...	...	...	
	N, E	e	18 1 ...	...	...	...	
	N, E	F	Masked by microseisms.				
,, 11	N	M	1 28 36	...	...	...	Seismic activity.
	E	M	28 27	...	...	..	
,, 11	N, E	e	4 50 ..	...	...	...	Feeble.
	N, E	F	Masked by microseisms.				

TABLE D_2—*cont d.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.					H. M. S.	Sec	μ	Km.	
1936.								1936							
Nov. 11	N,E	s	17 19 ...	...	...	...	Feeble.	Nov. 23	N,E	eP	1 34 5	...	...	1710	Slight. Epc : 28°·5 N., 85° E. North of Nepal. O : 1h. 30m. 23s. G. M. T.
	N	M	23 51	...	...	...			N,E	eS	37 5	...	...	...	
	E	M	22 44	...	...	...			N,E	SR_2	37 28	...	...	...	
	N,E	F	Masked by microseisms.						N,E	L	38 ...	...	...	...	
,, 12	N,E	i	20 24 1	...	...	...	Feeble.		N	Mn	41 35	6	9	...	
	N,E	F	57 ...	...	...	...			E	Mn	41 28	6	8	...	
,, 13	N,E	M	0 13 48	...	...	...	Seismic activity.		N,E	F	2 13 ...	...	...	...	
,, 18	N,E	iP	12 43 9	...	...	8370	Moderate. Epc : 54° N., 165°E. (Strasbourg). O : 12h. 31m. 29s. G.M.T.	,, 24	N,E	e	13 42 ...	...	...	...	Feeble, distant.
	N,E	PR_1	45 58	...	...	...			E	F	14 30 ...	...	...	...	
	N,E	iS	52 52	...	...	...		,, 29	N,E	e	4 15 ...	...	...	...	Feeble, near.
	N,E	PS	53 16	...	...	...			N,E	F	37 ...	...	...	...	
	N,E	SR_1	57 40	...	...	...		,, 29	N,E	e	8 44 ..	...	...	...	Slight, distant.
	N,E	SR_2	13 1 14	...	...	...			E	Mn	9 25 37	...	...	...	
	N,E	L	8 ...	...	...	...			N,E	F	10 20 ...	...	...	...	
	N	Mn	13 24	22	23	...									
	E	Mn	17 28	19	31	...		,, 29	N,E	e	22 58 ...	...	...	...	Slight.
	N,E	F	16 23 ...	...	...	...			N,E	F	23 43 ...	...	...	...	
,, 14	N,E	e	4 34 19	...	...	...	Feeble, near.	,, 30	N	eP	23 55 32	...	...	6010	Slight. Epc : Near Celebes Islands. O : 23h. 46m. 6s. G. M. T.
	N,E	s	38 30	...	...	...		Dec. 1	E	iP					
	N,E	F	5 47 ...	...	...	...			N, E	PcP	56 42	...	...	...	
									N, E	iS	00 3 13	...	...	...	
,, 14	N,E	e	14 51 ...	...	...	...	Feeble.		N, E	ScS	5 13	...	...	...	
	N,E	F	15 41 ...	...	...	...			E	SR_1	7 00	...	...	...	
									N, E	L	18 ...	...	...	...	
,, 14	N,E	e	19 50 ...	...	...	...	Feeble.		E	Mn	20 8	...	...	...	
	N,E	F	20 38 ...	...	...	...			N, E	F	1 29 ...	...	...	...	
,, 15	N,E	e	22 11 ...	...	...	...	Feeble.	,, 1	N	eP	6 18 0	...	...	5290	Slight. Epc : 30°5 N, 122°E. O : 6h. 9m. 27s. G. M. T.
	N,E	F	23 39 ...	...	...	...			N	iS	25 1	...	...	...	
,, 16	N,E	e	23 41 ...	...	...	...	Feeble.		N	F	7 11 ...	...	...	...	
,, 17	N,E	i	49 29	...	...	...		,, 3	N, E	e	00 54 15	...	...	...	Seismic activity.
	N,E	F	0 10 ...	...	...	...			N	M	00 56 22	...	...	...	
, 18	N,E	e	15 56 ...	...	...	...	Feeble.		E	M	56 31	...	...	...	
	N,E	F	16 49 ...	...	...	...									
								,, 3	E	e	20 12 ...	...	...	...	Feeble.
,, 19	N	P	21 30 0	...	...	16020	Slight. Epc : 14° N., 91° W. (U. S. C. G. S.).		N	e	13 ...	...	...	...	
	E	e	30 12	...	...	...			E	M	17 35	...	...	...	
	N	$\frac{PR_2}{ScPcP}$	33 11	...	...	...			E	F	46 ...	...	...	...	
	N,E		33 34	...	...	...									
	N,E	SR_2	58 24	...	...	...		,, 4	N, E	e	22 51 ...	...	...	..	Feeble, distant.
									N, E	F	00 21 ...	...	...	..	
	N	Mn	22 40 30	...	...	...									
	E	Mn	43 53	...	...	...		,, 5	N, E	e	19 27 ...	...	...	..	Feeble, near.
	N,E	F	23 46 ...	...	...	...			N, E	F	20 34 ...	...	...	..	
,, 22	N,E	P	18 38 52	...	...	16080	Slight. Epc : 14° N., 90° W., (U. S. C. G. S.). O : 18h. 19m. 17s. G. M. T.	,, 9	N, E	e	14 54 ...	...	...	...	Tremors.
	N	PR_1	42 7	...	...	...			N, E	F	15 13 ...	...	...	..	
	N	$\frac{}{ScPcP}$	42 29	...	...	...									
	E	SR_2(?)	19 7 15	...	...	...		,, 13	N, E	P	21 41 59	...	...	7470	Slight. Epc : 10°N., 141°E., Near Caroline Islands. O : 21h. 31m. 5s. G. M. T. Hong-kong △ = 28°.9.
									N, E	S	50 59	...	...	...	
	E	M	49 28	...	...	...			N, E	F	22 47 ...	...	...	...	
	E	M	52 44	...	...	...									
	N,E	F	20 48 ...	...	...	...									

TABLE D_2—*concld.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S	Sec.	μ	Km.	
Dec. 14	N	iP (?)	4 12 0	...	...	4810	Slight.
	E	i	13 42	...	...	...	
	N, E	iS	18 34	...	...	...	
	E	i	22 8	...	...	...	
	N, E	F	Obliterated by microseisms.				
,, 20	N, E	P	18 36 58	...	...	4280	Slight. Epc: South Sumatra. O: 18h. 29m. 25s. G. M. T.
	N, E	PR_2	38 35	...	...	...	
	N, E	S	43 3	...	...	...	
	N, E	SR_2	46 4	...	...	...	
	N, E	L	49 ...	...	...	...	
	N, E	F	19 58 ...	...	...	...	
,, 21	N, E	e	19 19 ...	...	...	...	Slight, distant.
	N, E	F	21 26 ...	...	...	...	
,, 22	E	e	8 1 2	...	...	...	Slight, near. N-trace lost.
	E	i	1 56	...	...	...	
	E	F	11 ...	...	...	...	
,, 26- ,, 27	E	P^1 (?)	23 11 0	...	...	12255	Slight. Epc: North off New Zealand. (Chieuteng).
	E	PR_1	12 0	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Dec. 26- Dec. 27	E	PR_2	14 22	...	...	...	
	N, E	PS	21 45	...	...	...	
	N, E	PPS	23 15	...	...	...	
	E	SR_1	28 30	...	...	...	
	E	Mn	57 30	24	11	...	
	N	Mn	0 1 30	19	6	...	
	N, E	F	Masked by following shock.				
,, 27	E	i	16 19 45	...	...	...	Slight, distant. Preliminary portion mixed up with coda of earlier shock.
	E	M	50 15	17	6	...	
	N	M	49 50	16	5	...	
	N, E	F	1 49 ...	...	...	...	
,, 29	N, E	iP	15 0 10	...	...	9010	Slight. Epc: 6°·5 149°E.
	N, E	iS	10 21	...	...	...	
	N, E	PS	11 13	...	...	...	
	E	SR_1	16 5	...	...	...	
	N, E	L	26 ...	...	...	...	
	N, E	F	17 40 ...	...	...	...	

K. R. RAMANATHAN,

Meteorologist, Colaba Observatory, Bombay.

STATION—ALIPORE OBSERVATORY, CALCUTTA.

Lat. 22° 32′ N. *Long.* 88 °20′ E. *Height above M. S. L.* 7·1 metres.

Lithologic Foundation : Alluvial.

Instrument :—Milne-Shaw Seismograph East-West (E) component.

INSTRUMENTAL CONSTANTS.

Compt.	Steady mass (Kg.)	T. (sec.).	Vm	ε	Paper speed mm./min.
E-W	0·45	12	250	20 : 1	8

TABLE D_3.

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.		1936.			H. M. S.	Sec.	μ	Km.	
Jan. 2	E	e	1 15 11	...	...	...	Tremors.	Jan. 14	E	P	14 31 5	...	...	8340	Slight.
		Mn	18 48	15	1	...				PR_1	33 59	...	...	...	
		F	?	...	...	...	Lost in microseisms.			S	40 48	...	...	...	
										eL	55 20	...	...	...	
,, 2	E	e	3 34 5	...	...	...	Tremors.			M	?	...	...	...	
,, 2	E	iP	17 34 55	...	...	5570	Slight.			F	16 29 ...	...	...	...	
		PR_2	37 37	...	...	...									
		SR_1	45 37	...	...	...		,, 14	E	P	17 54 5	...	...	9180	Slight.
		L	50 19	...	...	...				S	18 4 24	...	...	...	
		F	18 51 ...	...	...	...				L	21 11	...	...	...	
										F	19 40 ...	...	...	...	
,, 2	E	iP	22 39 53	...	...	2620	Moderate.	,, 15	E	eP	14 56 40	...	...	9330	Slight.
		iS	44 10	...	...	...				eS	15 7 12	...	...	...	
		eL	46 21	...	...	...				SR_1	12 53	...	...	...	
		Mn	56 25	13	74	...				eL	24 25	...	...	...	
										F	16 30 ...	...	...	...	
,, 7	E	e	12 1 6	...	...	...	Tremors.								
		F	22 ...	...	...	...		,, 17	E	P	12 18 22	...	...	590	Slight.
										S	19 25	...	...	...	
,, 8	E	e	12 47 27	...	...	...	Tremors.			L	19 47	...	...	...	
		F	13 15 ...	...	...	...				Mn	21 6	7	21	...	
										F	43 ...	...	...	...	
,, 12	E	e	3 40 21	...	...	...	Tremors.	,, 20	E	P	17 3 56	...	...	4350	Moderate.
		F	57 ...	...	...	...				i	4 14	...	...	...	
										PR_2	5 45	...	...	...	
,, 13	E	eP(?)	18 15 50	...	...	3450	Slight.			S	10 4	...	...	...	
		S	21 2	...	...	...				L	15 32	...	...	...	
		eL	24 50	...	...	...				Mn	18 7	8	30	...	
		Mn	31 25	15	25	...				F	19 11 ...	...	...	...	
		F	19 44 ...	...	...	...									
								,, 27	E	P	10 37 32	...	...	550	Slight.
,, 14	E	P	5 56 36	...	...	9500	Slight.			P	37 53	...	...	...	
		ScPcS	6 6 47	...	...	...				S	38 29	...	...	...	
		SR_1	12 58	...	...	...		,, 27	E	P	19 35 39	...	...	2300	Slight.
		eL	25 0	...	...	...				S	39 30	...	...	...	
		Mn	34 3	18	14	...				SR_1	40 15	...	...	...	

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.		1936.			H. M. S.	Sec.	μ	Km.	
Jan. 27		L	41 15	.	...	...		Feb. 14	E	e	14 39 28	...	...	...	Tremors.
		M	44 59	7	10	...				F	45 ...	...	...	...	
		F	20 23 ...	...	...	...		,, 15	E	P	12 56 7	...	...	5620	Moderate.
Feb. 2	E	e	5 24 42	...	...	...	Tremors.			S	13 3 27	...	...	...	
,, 4	E	P	12 20 23	...	...	450	Slight.			SR_1	8 21	...	...	...	
		S	21 9	...	...	...				L	11 47	...	...	...	
		L	21 29	...	...	...				Mn	17 2	16	135	...	
		F	41 ...	...	...	...				F	16 36 ...	...	...	...	
,, 4	E	i	12 50 57	...	...	...	Tremors.	,, 16	E	P	14 30 19	...	...	8250	Slight.
		F	13 7 ...	...	...	...				S	39 57	...	...	...	
										PS	40 30	...	...	...	
,, 6	E	e	4 14 31	...	...	5090	Slight. Phases masked by microseisms.	,, 17	E	e	23 28 3	...	...	...	
		Mn	30 16	10	7	...				Mn	31 54	...	...	...	
,, 6	E	P	20 53 44	...	...	5920	Slight.			F	55 ...	...	...	...	
		PR_1	55 45	...	...	...		,, 18	E	P	14 32 42	...	...	900	Slight.
		S	21 1 19	...	...	...				S	34 13	...	...	...	
		L	10 18	...	...	...				L	34 54	...	...	...	
		F	56 ...	...	...	...				Mn	35 32	6	61	...	
,, 7	E	P	9 0 36	...	...	2140	Great.			F	15 26 ...	...	...	...	
		S	4 12	...	...	...									
		L	6 23	...	...	...		,, 20	E	e	3 44 6	...	...	...	Tremors.
		Mn	9 42	8	280	...		,, 21	E	e	1 21 51	...	...	...	Tremors.
		F	11 4 ...	...	...	...				F	2 8 ...	...	...	...	
,, 8	E	P	12 21 38	...	...	6680		,, 21	E	P	6 22 34	...	...	820	Moderate.
		S	29 58	...	...	...				S	23 58	...	...	...	
		eL	41 5	...	...	...				L	24 33	...	...	...	
		F	13 55 ...	...	...	...				Mn	28 38	8	140	...	
										F	7 26 ...	...	...	...	
,, 9	E	e	4 4 9	...	...	...	Tremors.								
		F	38 ...	...	...	...		,, 21	E	P	11 26 39	...	...	500	Slight.
										S	27 30	...	...	...	
,, 10	E	eP	18 23 18	...	...	3330	Slight.			L	27 52	...	...	...	
		S	28 22	...	...	...				F	51 ...	...	...	...	
		L	31 54	...	...	...									
		F	19 21 ...	...	...	...		,, 21	E	P	17 7 34	...	...	6600	Slight.
										S	15 48	...	...	...	
,, 10	E	e	21 4 5	...	...	...	Tremors.			L	26 23	...	...	...	
		F	18 ...	...	...	...				F	18 45 ...	...	...	...	
,, 11	E	P	4 49 9	...	...	610	Moderate.	,, 21	E	e	19 29 26	...	...	...	Tremors.
		S	50 16	...	...	...				F	47 ...	...	...	...	
		L	50 36	...	...	...									
		Mn	51 20	6	176	...		,, 22	E	P	15 45 56	...	...	10330	Slight.
		F	5 29 ...	...	...	...				$\overline{ScPcS}$	56 19	...	...	...	
										S	57 3	...	...	...	
,, 11	E	P	20 8 42	...	...	500	Slight.			PS	58 6	...	...	...	
		$\overline{P}$	9 0	...	...	...				SR_1	16 3 29	...	...	...	
		S	9 37	...	...	...				L	17 9	...	...	...	
		L	9 56	...	...	...				M_1	24 49	20	47	...	
		Mn	10 22	5	35	...				M_2	29 5	20	52	...	
		F	44 ...	...	...	...				F	18 51 ...	...	...	...	

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Feb. 22	E	eP	19 36 44	...	...	10330	Slight.
		ScPcS	47 7	...	...	...	
		L	20 7 26	...	...	...	
		F	22 7 ...	...	...	...	
,, 24	E	P	7 2 4	...	...	830	Slight.
		S	3 28	...	...	...	
		S	4 23	...	...	...	
		Mn	9 3	8	24	...	
		F	35 ...	...	...	...	
,, 24	E	e	16 44 57	...	...	...	Tremors.
		F	17 6 ...	...	...	...	
,, 27	E	P	10 12 42	...	...	5080	Slight.
		S	19 31	...	...	...	
		SR_2	23 43	...	...	...	
		L	26 36	...	...	...	
		Mn	34 36	13	24	...	
		F	39 ..	...	...	...	
,, 27	E	e	17 30 52	...	...	...	Tremors.
		F	44 ...	..	...	...	
,, 28	E	e	3 25 58	...	...	...	Tremors.
		F	4 18 ...	...	...	...	
,, 28	E	P	16 23 37	...	...	5640	Slight.
		S	30 58	...	...	...	
		L	39 11	...	...	...	
		Mn	46 1	15	32	...	
		F	18 1 ...	...	...	...	
,, 29	E	e	20 42 50	...	...	...	Tremors.
		F	21 9 ...	...	...	...	
Mar. 1	E	P	10 30 32	...	...	5130	Slight. Probably deep focus.
		iS	37 24	...	...	...	Epc: South of Sakhalin Island (Chiufeng).
		i	47 34	...	...	...	
		Mn	11 11 51	15	32	...	
		F	12 40 ...	...	...	...	
,, 2	E	P	3 28 9	...	...	5670	Moderate. Epc: East off Hokkaido, Japan (Manila).
		S	35 31	...	...	...	
		L	43 25	...	...	...	
		M	52 5	15	57	...	
		Mn	58 32	15	75	...	
		F	Lost in microseisms				
,, 5	E	e	7 41 16	...	...	...	Tremors.
,, 6	E	e	12 22 44	...	...	...	Tremors.
,, 8	E	e	0 38 20	...	...	...	Tremors.
,, 10	E	P	20 44 57	...	...	5610	Slight.
		PR_1	46 50	...	...	...	
		S	52 16	...	...	...	
		Mn	21 10 17	12	8	...	
		F	55 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ.	Km.	
Mar. 11	E	e	0 39 6	...	...	...	Tremors.
,, 11	E	P	11 4 2	...	...	1,680	Slight.
		S	6 57	...	...	...	
		L	8 2	...	...	...	
		Mn	9 2 5	14		...	
		F	Lost in microseisms.				
,, 17	E	P	19 54 52	...	...	2,550	Slight.
		S	59 2	...	...	...	
		eL	20 1 7	...	...	...	
		F	21 31 ...	...	...	...	
,, 18	E	e	12 7 36	...	...	...	Tremors.
		Mn	12 22	6	?	...	
		F	38 ...	...	...	...	
,, 18	E	e	13 45 34	...	...	...	Tremors.
		F	14 16 ...	...	...	...	
,, 18	E	eP	22 28 18	...	...	2,400	Slight. Epc: North Sumatra (Batavia).
		S	32 15	...	...	...	
		eL	34 8	...	...	...	
		F	23 12 ...	...	...	...	
,, 19	E	e	12 47 3	...	...	...	Slight.
		i	48 27	...	...	...	
		F	13 9 ...	...	...	...	
,, 22	E	P	12 27 47	...	...	8170	Slight. Epc: Southwest of Solomon Islands, (Chiufeng).
		S	37 21	...	...	...	
		L	51 37	...	...	...	
		F	13 54 ...	...	...	...	
,, 24	E	e	22 7 43	...	...	...	Tremors.
		F	37 ...	...	...	...	
,, 25	E	e	14 27 20	...	...	...	Tremors.
		i	55 ...	...	...	...	
Apr. 1	E	P	2 17 10	...	...	4720	Great. Epc: 3° N., 123° E, (J. S. A). O: 2h. 9m. 16s. G. M. T.
		S	23 39	...	...	...	
		L	29 59	...	...	...	
		F	6 24 ...	...	...	...	
,, 1	E	P	20 18 49	...	...	4,400	Slight.
		S	25 1	...	...	...	
		L	30 32	..	...	...	
		Mn	41 51	17	57	...	
		F	22 15 ...	...	...	...	
,, 2	E	P	6 27 47	...	...	7270	Slight.
		PR_2	30 17	...	...	...	
		S	36 38	...	...	...	
		L	48 29	...	...	...	
		F	Lost in microseisms.				

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936			H. M. S.	Sec.	μ	Km.		1936.			H. M. S.	Sec.	μ	Km.	
Apr. 9	E	P	16 14 32	...	...	9430	Slight.	Apr. 20	E	e	13 13 20	...	...	...	Tremors.
		S	25 2	...	...	...				Mn	33 31	10	5	...	
		SR_1	30 48	...	...	...				F	19 01 ...	...	...	...	
		L	42 43	...	...	...									
		F	17 51 ...	...	...	...		,, 21	E	e	1 43 14	...	...	...	Tremors.
										Mn	46 49	...	...	...	
,, 10	E	e	17 2 44	...	...	...	Tremors.								
		F	49 ...	...	...	...		,, 23	E	e	23 26 34	...	...	...	Tremors.
										i	35 23	...	...	...	
,, 10	E	eP?	20 6 3	...	...	2970	Slight.								
		S	10 43	...	...	...		,, 27	E	P	0 2 42	...	...	1,800	Moderate.
		SR_1	11 56	...	...	...				PR_1	2 57	...	...	...	
		Mn	16 52	10	12	...				S	5 50	...	...	...	
		F	53 ...	...	...	...				SR_1	6 21	...	...	...	
										L	6 59	...	...		
,, 11	E	P	23 45 17	...	...	3900	Slight.			M	8 18	6	79		
		PR_2	46 46	...	...	...				Mn	9 22	8	121	...	
		S	50 58	...	...	...									
		F	0 35 ...	...	...	...		,, 27	E	i	1 41 5	...	...	...	Tremors.
										Mn	46 1	8	22	...	
,, 12	E	P	20 59 52	...	...	5410	Moderate. Epc : 10° N., 140° E. (Manila).	,, 27	E	i	3 45 3	..	...	...	Tremors.
		PR_1	21 1 40	...	...	...				Mn	48 28	6	12	...	
										F	4 4 ...	...	...	...	
		S	6 59	...	...	...									
		SR_1	10 17	...	...	...		,, 27	E	i	5 47 57	...	...	...	Tremors.
		L	14 39	...	...	...				Mn	53 5	...	...	...	
		Mn	18 58	13	48	...				F	6 10 ...	...	...	...	
		F	Lost in microseisms.												
								,, 27	E	i	8 13 34	..	...	...	Tremors.
,, 16	E	e	14 18 14	...	...	...	Tremors.			F	19 ...	..	...	...	
		F	45 ...	...	...	...									
,, 16	E	e	18 11 43	...	...	..	Feeble shock.	,, 28	E	e	5 51 2	...	...	...	Tremors.
		i	15 28	...	...	...				i	6 0 41	...	...	...	
		F	37 ...	...	...	...		,, 28	E	P	13 44 23	...	...	5080	Probably deep focus.
,, 16	E	e	20 27 54	...	...	...	Tremors.			S	51 12	...	...	...	
		Mn	36 50	10	5	...									
		F	21 5 ...	...	...	...		,, 28	E	eP	18 30 57	...	...	1800	Slight.
										S	34 5	...	...	...	
,, 17	E	e	22 27 5	...	...	...	Tremors.			SR_1	34 35	..	...	...	
		i	32 5	...	...	...				L	35 14	...	...	...	
		Mn	36 16	...	...	...				Mn	39 57	14	18	...	
		F	54 ...	...	...	...				F	19 19 ...	...	...	...	
,, 19	E	P	5 18 48	...	...	7970	Great. Epc : 9° S., 156° E. (J. S. A.) 0 : 5h.7m. 12s. G. M. T.	,, 29	E	e	18 22 5	...	...	...	Tremors.
		PR_2	23 4	...	...	...				Mn	31 49	...	...	...	
		S	28 12	...	...	...				F	53 ...	...	...	...	
		SR_2	35 44	...	...	...									
		L	39 0	...	...	...		May 2	E	e	7 21 22	...	...	...	Tremors.
		Mn	51 21	20	201	...				Mn	23 24	...	...	...	
										F	29 ...	...	...	...	
,, 19	E	eP	9 7 7	...	...	1400	Great.								
		S	9 37	...	...	...		,, 4	E	F (?)	18 35 7	...	...	1520	Slight.
		L	10 23	...	...	...				S	36 26	...	...	...	
		Mn	16 7	15	32	...				S* (?)	37 16	...	...	...	
		F	tl 55 ...	...	...	...				F	Lost in microseisms.				

TABLE D3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
May 5	E	e	19 55 44	...	...	...	Tremors.
		i	20 2 29	...	...	...	
		F	48 ...	...	...	...	
,, 6	E	e	19 3 32	...	...	...	Tremors.
		F	18 ...	...	...	...	
,, 7	E	e	1 57 47	...	...	...	Slight.
		Mn	6 59	4	6	...	
		F	Lost in microseisms.				
,, 8	E	e	9 19 49	...	...	...	Probably deep focus.
		IS	23 6	...	...	...	
		Mn	26 45	8	17	...	
		F	54 ...	...	...	...	
,, 8	E	P	15 27 55	...	...	1810	Slight.
		PR_1	28 8	...	...	...	
		S	31 4	...	...	...	
		L	32 20	...	...	...	
		Mn	34 41	8	13	...	
		F	16 6 ...	...	...	...	
,, 10	E	P	5 58 31	...	...	940	Slight.
		$\overline{P}$	59 14	...	...	...	
		S	6 0 5	...	...	...	
		S*	0 35	...	...	...	
		$\overline{S}$	1 7	...	...	...	
		Mn	5 11	6	27	...	
		F	33 ...	...	...	...	
,, 11	E	P	17 38 37	...	..	7,710	Slight Epc: 4° S, 154° E (Manila).
		PR_2	42 54	...	...	...	
		S	47 48	...	...	...	
		PS	48 18	...	...	...	
		L	18 0 53	...	...	...	
		Mn	5 54	20	25	...	
		F	19 44 ...	...	...	...	
,, 13	E	e	0 0 13	...	...	...	Tremor.
		Mn	3 41	...	...	...	
		F	Lost in microseisms.				
,, 16	E	e	6 48 57	...	...	...	Tremor.
		i	53 14	...	...	...	
		Mn	56 25	7	8	...	
		F	Mixed up in the following shock.				
,, 16	E	P	7 9 15	...	...	1850	Moderate. Epc: Western China (Manila).
		PR_1	9 29	...	...	...	
		S	12 27	...	...	...	
		SR_1	12 59	...	...	...	
		L	13 39	...	...	...	
		M	15 5	10	167	...	
		Mn	16 11	10	293	...	
		F	8 56 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
May 19	E	e	7 33 2	...	...	...	Tremor.
		F	Lost in microseisms.				
,, 19	E	P	20 58 34	...	...	...	Probably deep focus Epc: 16° N. 141° E. (Manila).
		S	21 5 15	...	...	...	
		Mn	40 24	6	27	...	
		F	22 13 ...	...	...	...	
,, 20	E	eP	3 17 8	...	...	8080	Slight. Epc: 8° S., 160° E. (J. S. A.).
		S	20 38	...	...	...	
		PS	27 12	...	...	...	
		SR_1	32 30	...	...	...	
		Mn	49 12	20	52	...	
		F	6 29 ...	...	...	...	
,, 22	E	e	0 52 23	...	...	...	Tremor.
		i	57 0	...	...	...	
		F	Lost in microseisms.				
,, 22	E	e	23 33 51	...	...	...	
		i	44 39	...	...	...	
		F	0 45 ...	...	...	...	
,, 25	E	e	2 44 5	...	...	...	
		F	Lost in microseisms.				
,, 25	E	e	3 21 26	...	...	...	
		F	Lost in microseisms.				
,, 27	E,N*	P	6 21 0	...	...	770	Great (felt locally)
	N*	S	22 20	...	...	...	Data from Omori-Ewing (N. S.) component.
	N*	L	22 47	...	...	...	
		M	?	...	...	...	
		F	Lost in microseisms.				
,, 31	E,N*	P	7 9 41	...	...	340	Slight.
	E	$\overline{P}$	9 53	...	...	...	Data from Omori-Ewing (N.S.) component.
	E,N*	S	10 22	...	...	...	
	N	Mn	11 18	...	...	...	
	E	F	Lost in microseisms.				
June 5	E	P	14 44 42	...	...	4,580	Slight.
		PR_1	45 8	...	...	...	
		S	51 4	...	...	...	
		SR_1	53 40	...	...	...	
		SR_2	54 30	...	...	...	
		L	57 3	...	...	...	
		M	15 0 30	14	6	...	
		F	18 ...	...	...	...	
,, 9	E	P	0 3 53	...	...	560	Moderate.
		$\overline{P}$	4 24	...	...	...	
		S	4 56	...	...	...	
		F	Lost in microseisms.				
,, 9	E	P	8 26 53	...	...	560	Slight.
		$\overline{P}$	27 25	...	...	...	
		S	27 56	...	...	...	
		F	52 ...	...	...	...	

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
June 9	E	P	16 41 55	...	...	3,170	Slight. L waves poor. Maximum movement in S phase. Deep focus. Focal depth according to Brunner's chart 300 km.
		sP	43 26	...	...	...	
		S	46 19	...	...	...	
		sS	48 4	...	...	...	
		F	17 58 ...	...	...	...	
,, 10	E	e	2 9 7	...	...	...	Slight.
		i	12 38	...	...	...	
		Mn	14 55	7	6	...	
		F	Lost in microseisms.				
,, 10	E	P	3 34 7	...	...	2530	Moderate.
		PR_1	34 33	...	...	...	
		S	38 16	...	...	...	
		SR_1	39 10	...	...	...	
		L	40 24	...	...	...	
		Mn	41 24	8	71	...	
		F	Lost in microseisms.				
,, 10	E	P	8 34 26	...	...	7780	Slight. L waves poor Maximum displacement in S phase. Deep focus. Focal depth according to Brunner's chart 400 km.
		pP	35 50	...	...	...	
		PR_1	37 46	...	...	...	
		S	43 1	...	...	...	
		sS	45 42	...	...	...	
		F	Lost in congestion.				
,, 10	E	i	9 57 57	...	...	...	Slight.
		F	Lost in microseisms.				
,, 10	E	P	17 16 5	...	...	2530	Slight
		S	20 14	...	...	...	
		SR_1	21 8	...	...	...	
		L	22 23	...	...	...	
		M	24 13	...	...	...	
		Mn	26 25	8	30	...	
		F	58 ...	...	...	...	
,, 11	E	eP	9 48 31	...	...	2530	Slight.
		S	52 40	...	...	...	
		SR_1	53 33	...	...	...	
		L	54 48	...	...	...	
		M	56 50	...	...	...	
		Mn	58 55	8	28	...	
		F	Lost in microseisms.				
,, 14	E	e	17 15 25	...	...	...	Slight.
		i	20 36	...	...	...	
		Mn	32 12	...	...	...	
		F	Lost in microseisms.				
,, 16	E	P	15 30 25	...	...	1680	Slight.
		S	33 22	...	...	...	
		SR_1	33 50	...	...	...	
		Mn	35 58	9	5	...	
		F	48 ...	...	...	...	
June 17	E	e	12 3 18	...	...	...	Slight, near
		i	5 20	...	...	...	
		Mn	6 29	...	...	...	
		F	18 ...	...	...	...	
,, 17	E	e	14 46 56	...	...	...	Slight, near.
		Mn	48 50	...	...	...	
		F	15 0 ...	...	...	...	
,, 18	E	P	14 57 23	...	...	510	Slight
		P*	57 38	...	...	...	
		S	58 20	...	...	...	
		Mn	15 0 55	5	87	...	
		F	30 ...	...	...	...	
,, 19	E	P	16 36 57	...	...	840	Slight.
		S	38 26	...	...	...	
		S*	38 52	...	...	...	
		S	39 18	...	...	...	
		Mn	43 32	8	60	...	
		F	17 26 ...	...	...	...	
,, 28	E	Mn	8 43 25	...	...	...	Beginning and end masked by microseisms.
,, 29	N	P	14 34 32	...	...	2170	
		S	38 11	...	...	...	Moderate. Epicentre in N. W. F. Provinces near 35° N., 72° E.
		SR_1	38 55	...	...	...	
		Mn	44 8	8	45	...	
		F	Lost in microseisms.				
,, 30	N, E	P	15 17 0	...	...	6,680	Great. Epicentre near Kamtchatka, 51°N., 161°E.(J.S.A.)
	N, E	S	25 20	...	...	...	
	N	SR_1	29 28	...	...	...	
	E	eL	35 59	...	...	...	
	N	M	41 00	...	...	...	
		Mn	46 15	20	397	...	
		F	Lost in microseisms.				
,, 30	N	eP	19 32 8	...	...	3,090	Moderate. Epicentre in Persia near 33° N., 59° E
		S	36 53	...	...	...	
		SR_1	38 11	...	...	...	
		L	39 54	...	...	...	
		Mn	44 4	15	111	...	
		F	Lost in microseisms.				
July 1	N	P	16 51 7	...	...	610	Slight.
		P*	51 25	...	...	...	
		P	51 42	...	...	...	
		S	52 13	...	...	...	
		Mn	53 35	7	17	...	
		F	Lost in microseisms.				
,, S	N	e	21 26 59	...	...	...	Slight.
		Mn	40 29	...	...	...	
		F	Lost in microseisms.				

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1936.							
July 4	N	P	9 2 3	...	...	2130	Slight.
		PR_1	2 22	...	...	...	
		PR_2	2 29	...	...	...	
		S	5 39	...	...	...	
		SR_1	6 21	...	...	...	
		L	7 13	...	...	...	
		M	8 47	...	...	...	
		Mn	13 38	6	9	...	
		F	54 ...	...	...	...	
,, 5	N	P	19 2 55	...	...	4330	Moderate Deep focus. Depth according to Brunner's charts about 80 km. Epc: 4°·0N., 124°·9 E. (J. S. A.).
		pP	3 17	...	...	...	
		PR_1	4 55	...	...	...	
		S	8 22	...	...	...	
		sS	9 02	...	...	...	
		Mn	18 27	16	71	...	
		F	20 40 ...	...	...	...	
,, 6	N		7 9 22	...	...	...	Slight.
		Mn	17 14	...	...	...	
		F	Lost in microseisms.				
,, 6	N	P	18 35 47	...	...	2,010	Slight.
		S	39 13	...	...	...	
		SR_1	39 53	...	...	...	
		L	40 39	...	...	...	
		M	42 17	...	...	...	
		Mn	49 30	5	3	...	
		F	19 12 ...	...	...	...	
13	N	P'_1	11 32 37	...	...	19820	Moderate. Epc: 23°0 S., 70°2 W. (J. S. A.).
		P'_2	34 24	...	...	...	
		ScPcP	36 12	...	...	...	
		PR_1	38 14	...	...	...	
		Mn	13 56 1	20	227	...	
		F	16 0 ...	...	...	...	
,, 21	N	e	0 5 29	...	...	...	Slight, near.
		Mn	16 49	...	...	...	
		F	Lost in microseisms.				
,, 22	N	P	9 4 23	...	...	1330	Slight.
		S	6 47	...	...	...	
		L	7 25	...	...	...	
		Mn	8 26	5	16	...	
		F	25 ...	...	...	...	
,, 22	N	e	7 32 41	...	...	...	Slight, near.
		F	Lost in microseisms,				
,, 26	N	P'_1	7 58 8	...	...	19000	Slight.
		PR_2	8 1 51	...	...	...	Epc: 22°·8S., 70°·8W (J. S. A.)
		L	50 39	...	...	...	
		M	59 13	...	...	..	
		Mn	9 7 33	15	18	..	
		F	Lost in microseisms				

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M S.	Sec.	μ	Km.	
1936.							
July 28	N	P	5 28 39	...	...	6170	Slight.
		S	36 46	...	...	...	
		L	46 59	...	...	...	
		F	Lost in microseisms				
,, 28	N	P (?)	10 2 20	...	...	6870	Slight.
		S	10 50	...	...	...	
		L	21 55	...	...	...	
		F	Lost in microseisms				
,, 31	N	P	11 24 49	...	...	1330	Slight.
		S	27 13	...	...	...	
		SR_1	27 36	...	...	...	
		L	27 59	...	...	...	
		M	28 59 5	32		...	
		F	Lost in microseisms				
Aug. 1	N	P	6 28 42	...	...	2170	Epc: Kansu, China (NanKing).
		S	32 21	...	...	...	
		eL	35 ...	...	...	...	
		Mn	36 9	9	67	...	
		F	7 29 ...	...	...	...	
,, 4	N	P	14 18 37	...	...	3250	Slight.
		S	23 37	...	...	...	
		SR_1	25 3	...	...	...	
		eL	27 ...	...	...	...	
		M	29 33	...	...	...	
		Mn	31 43	10	12	...	
			Lost in microseisms				
,, 9	N	i	10 20 7	...	...	...	Feeble shock.
		Mn	31 43	10	12	...	
		F	Lost in microseisms				
,, 12	N	e	2 38 51	...	...	...	Slight, near.
		i	3 0 49	...	...	...	
		F	11 ...	...	...	...	
,, 13	N	P	20 10 12	...	...	4310	Slight.
		PR_2	11 57	...	...	...	Epc: 8°N., 127°1. (Manila).
		S	16 19	...	...	...	
		SR_2	19 22	...	...	...	
		Mn	31 42	15	39	...	
		F	21 43 ...	...	...	...	
,, 14	N	e	22 43 25	...	...	...	Tremors.
		F	23 48 ...	...	...	...	
16	N	e	8 21 29	...	...	...	Tremors.
		F	Lost in microseisms				
16	N	e	16 57 6	...	...	...	Tremors.
		F	Lost in microseisms				

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1936.							
Aug. 18	N	P	13 16 21	...	...	1690	Slight.
		S	19 19	...	...	...	
		SR_1	19 47	...	...	...	
		L	20 23	...	...	...	
		Mn	23 2	5	8	...	
		F	Lost in microseisms				
,, 20	N	P	2 22 17	...	...	2180	Slight.
		PR_2	22 44	...	...	...	
		S	25 57	...	...	...	
		i	26 49	...	...	...	
		L	27 48	...	...	...	
		Mn	29 34	10	5	...	
		F	Lost in microseisms				
,, 20	N	i	23 40 48	...	...	...	Tremors.
		F	Lost in microseisms				
,, 22	N	P	6 58 1	...	...	3170	Moderate. Epc: 22°·3N., 121°·5E. (J. S. A.) Formosa Island.
		PcP	7 1 12	...	...	...	
		S	2 56	..	...	...	
		F	Lost in microseisms				
,, 23	N	e	19 49 17	..	...	...	Tremors.
		F	Lost in microseisms				
,, 23	N	e	20 54 8	...	...	...	Tremors.
		F	Lost in microseisms				
,, 23	N,E*	P	21 16 26	...	...	1950	Great.
		E	S 19 54	...	...	...	Epc: Near North Sumatra, 5°·8N., 95°·4E. (J. S. A.) Data from Omori-Ewing (E-W) Component.
		E	L 21 16	...	...	...	
,, 24	N	i	22 45	2	...	...	Tremors.
		Mn	23 17 10	15	7	...	
		F	Lost in microseisms				
,, 27	N	e	3 9 37	...	...	...	Tremors.
		F	Lost in microseisms				
,, 29	N	i	12 50 32	...	...	...	Slight.
		i	52 52	...	...	...	
		L (?)	53 46	...	...	...	
		F	Lost in microseisms				
Sept. 4	N	e	8 23 55	...	...	...	Tremors.
		Mn	43 9	16	20	...	
		F	Lost in microseism				
,, 7	N	P	2 34 26	...	...	680	Slight.
		S	35 35	...	...	...	
		eL	36 ...	...	...	...	
		Mn	38 59	5	18	...	
		F	3 10 ...	...	...	...	

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1936.							
Sept. 8	N	ePP	8 12 22	...	...	530	Slight.
		PP	12 46	...	...		
		SS	13 16	...	...		
		SS	13 39	...	...		
		F	23 ...	...	...	...	
,, 8	N	e	21 50 35	...	...	...	Tremors.
		F	Lost in microseisms.				
,, 12	N	e	18 10 38	...	...	...	Slight, near.
		i	12 15	...	...	...	
		M	17 40	...	...	...	
		Mn	19 18	10	12	...	
		F	57 ...	...	...	...	
,, 18	N	e	18 49 47	...	...	...	Slight, near.
		i	53 31	...	...	...	
		Mn	19 7 31	8	9	...	
		F	20 57 ...	...	...	...	
,, 19	N,E*	P	1 6 27	...	...	2280	Great. Epc: North Sumatra, 4·3° N., 97·8° E. (J. S. A.). *Data from Omori-Ewing (E-W) Component.
		E*	PR_2 6 56	...	...	...	
		E*	S 10 15	...	...	...	
		E*	F 2 44 ...	...	...	...	
,, 19	N,E*	P	6 35 10	...	...	2270	Slight.
		E*	S 38 57	...	...	...	*Data from Omori-Ewing (E-W) Component.
		E*	F 7 45 ...	...	...	...	
,, 24	N	e	20 58 42	...	...	...	Slight, near.
		i	59 47	...	...	...	
		F	21 32 ...	...	...	...	
,, 25	N	e	13 18 45	...	...	...	Slight, very distant.
		i	27 39	...	...	...	
		i	28 10	...	...	...	
		e	39 28	...	...	...	
		M	43 35	...	...	...	
		F	15 9 ...	...	...	...	
Oct. 4	N	e	21 58 57	...	...	...	Slight, distant.
		i	22 4 7	...	...	...	
		F	Masked by microseisms.				
,, 5	E	P	9 52 21	...	...	4560	Moderate: Epc: 3° N. 126°·4E. (J. S. A.), O: 9h. 44m. 38s. G. M. T. Data from Omori-Ewing (E-W) component.
		PR_2	54 20	...	...	...	
		S	58 41	...	...	...	
		SR_2	10 2 5	...	..	..	
		L	4 38	...	...	...	
		M	7 50	...	...	...	
		Mn	13 43	16	448	...	
		F	10 50 ...	...	...	...	
,, 10	N	e	3 22 7	...	...	...	Slight.
		F	4 26 ...	...	...	...	

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Oct. 13	N	e	6 44 13	...	...	...	Slight.
		e	50 12	...	...	...	
		F	7 32 ...	...	...	...	
,, 18	N	e	16 44 26	...	...	...	Slight, near.
		i	52 3	...	...	...	
,, 19	N	P	12 12 36	...	...	...	Slight, distant.
		i	16 15	...	...	...	
		F	14 19 ...	...	...	...	
,, 20	N	i	22 16 35	...	...	...	
		e	18 7	...	...	...	
		F	Lost in microseisms.				
,, 21	N	e	5 33 34	...	...	...	Slight.
		i	37 18	...	...	...	
		i	39 16	...	...	...	
		F	Lost in microseisms.				
,, 22	N	e	22 4 25	...	...	...	Slight.
		e	8 17	...	...	...	
		F	Lost in microseisms.				
,, 23	N	e	0 6 14	...	...	...	Tremors.
		F	Lost in microseisms.				
,, 23	N	P	6 36 59	...	...	9070	Moderate. Epc: 60°·8 N., 149°·4 W. (U. S. A.), Alaska. O: 6h. 24m. 24s. G. M. T.
		PR_1	40 7	...	...	...	
		S	47 13	...	...	...	
		PS	47 58	...	...	...	
		L	7 3 50	...	...	...	
		Mn	12 9	18	10	...	
		F	10 2 ...	...	...	...	
,, 24	N	e	16 18 13	...	...	...	Tremors.
		F	17 2 ...	...	...	...	
,, 25	N	e	15 41 7	..	...	...	Tremors.
		F	16 16 ...	...	...	...	
,, 26	N	P	19 37 29	...	...	2650	Moderate. Epc: West of Malay Peninsula. O: 19h. 32m. 18s. G.M.T.
		PR_1	37 58	...	...	...	
		S	41 47	...	...	...	
		SR_1	42 45	...	...	...	
		eL	44 5	...	...	...	
		Mn	54 34	10	50	...	
		F	21 45 ...	...	...	...	
,, 26	N	e	23 17 6	...	...	...	Slight.
		e	26 16	...	...	...	
		Mn	0 12 51	10	5	...	
		F	Lost in microseisms.				
,, 29	N	P	18 48 25	...	...	5,900	Mode ate. Epc: 13°·5N., 145°E Damage in Guam. O: 18h. 39m. 8s G.M.T.
		PR_1	50 10	...	...	...	
		S	56 0	...	...	...	
		Mn	19 12 27	10	17	...	
		F	20 57 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Oct. 30	N	e	14 18 23	...	...	...	Tremors.
		F	43 ...	...	...	...	
Nov. 1	N	e	3 3 16	...	...	...	Slight, very near.
		i	3 51	...	...	...	
		M	4 8	6	6	...	
		F	19 ...	...	...	...	
,, 2	E	P	15 7 48	...	...	6250	Slight. Epc: 48°·5N., 49°·5E near Kurile islands. O: 14h. 58m: 2s. G.M.T. Data from Omori-Ewing (E-W) component.
		S	15 38	...	...	...	
		L	25 7	...	...	...	
		F	16 16 ...	...	...	...	
,, 2	E	P	20 54 44	...	...	5120	Moderate. Epc: 41°N., 139°E. Destructive in Fukujama, Japan-Kow △-83°·5.O: 20 h. 46m-11s.G.M.T. Data from Omori-Ewing (E-W) component.
		S	21 1 36	...	...	...	
		L	9 11	...	...	...	
		M_1	15 55	26	638	...	
		Mn	17 34	20	741	...	
		F	Lost in congestion of lines.				
,, 3	N	e	5 1 12	...	...	...	Tremors.
		F	Lost in congestion of lines.				
,, 9	N	e	14 17 17	...	...	...	Tremors.
		i	22 47	...	...	...	
		F	49 ...	...	...	...	
,, 10	N	e	13 19 12	...	...	...	Tremors.
		i	22 27	...	...	...	
		F	40 ...	...	...	...	
,, 10	N	e	18 6 14	...	...	...	Tremors.
		i	8 39	...	...	...	
		F	25 ...	...	...	...	
,, 11	N	e	17 15 38	...	...	...	Slight.
		i	19 12	...	...	...	
		F	Lost in microseisms.				
,, 12	N	i	2 32 49	...	...	...	Seismic activity.
,, 12	N	e	8 40 45	...	...	...	Slight; phases lost in microseisms and congestion of lines.
,, 12	N	i	20 21 17	...	...	...	
		i	22 22	...	...	...	
		M	23 35	...	...	...	
,, 13	N	S	0 3 5	...	...	2870	Slight.
		eL	5 39	...	...	...	
		M	7 52	...	...	...	
,, 13	N	P	12 42 1	...	...	7180	Great. Epc: 56°N., 165°E. (Strasbourg). O: 12h. 31m. 29s. G.M.T.
		PR_2	45 47	...	...	...	
		S	50 48	...	...	...	
		SR_2	57 34	...	...	...	
		L	13 2 37	...	...	...	
		M	8 25	15	...	...	
		Mn	?	...	...	...	
		F	17 7 ...	...	...	...	

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Nov. 14	N	e	1 21 22	...	...	...	Slight, near.
		M	27 56	...	...	...	
		F	Lost in microseisms.				
„ 14	N	e	4 30 43	...	...	...	Slight, near.
		i	38 16	...	...	...	
		M	47 46	...	...	...	
		F	Lost in microseisms.				
„ 14	N	e	10 1 23	...	...	...	Slight, near.
		M	7 16	...	...	...	
		F	Lost in microseisms.				
14	N	e	14 49 23	...	...	...	Slight, near.
		i	15 7 16	...	...	...	
		F	49 ...	...	...	...	
„ 14	N	e	19 47 24	...	...	...	Slight, near.
		i	20 3 23	...	...	...	
		M	6 6	...	...	...	
		F	49 ...	...	...	...	
15	N	i	22 13 55	...	...	...	Tremors.
		i	16 50	...	...	...	
		i	25 13		...	...	
		i	39 2	...	...	...	
		Mn	23 4 52	...	...	...	
		F	56 ...	...	...	...	
18	N	e	16 6 16	...	...	...	Tremors.
		Mn	19 41	...	...	...	
		F	56 ...	...	...	...	
„ 19	N	$\overline{P'_2}$	21 29 55	...	...	15630	Slight. Epc: 14°N., 91°W. (U.S.C.G.S.).
		ScPo P	33 25	...	...	...	
		$\overline{ScPcPcS}$	39 27	...	...	...	
		PPS	45 20	...	...	...	
		SR_2	56 35	...	...	...	
		L	22 17 26	...	...	...	
		Mn	41 18	15	...	...	
		F	23 32 ...	...	...	...	
„ 22	N	P'	18 38 53	...	...	16340	Slight. Epc. 14° N., 90° W. (U. S. C. G. S.) O. 18h. 19m. 17s. G.M.T.
		PR_1	42 14	...	...	...	
		PPS	55 14	...	...	...	
		SR_2	19 7 0	...	...	...	
		Mn	50 11	25	22	...	
		F	21 59 ...	...	...	...	
„ 23	N	P	1 32 24	...	...	910	Slight. Epc. 28°·5 N., 85° E. North of Nepal. O. 1h. 30m. 28s. G. M.T.
		S	33 54	...	...	...	
		L	34 49	...	...	...	
		Mn	36 19	10	52	...	
		F	2 12 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Nov. 24	N	e	13 56 32	...	...	...	Slight, near.
		i	58 14	...	...	...	
		i	14 0 31	...	...	...	
		F	27 ...	...	...	...	
„ 24	N	e	22 58 31	...	...	...	Tremors.
		F	23 15 ...	...	...	...	
„ 25	N	e	11 53 20	...	...	...	Slight, near.
		i	12 0 17	...	...	...	
		Mn	17 39	...	...	...	
		F	37 ...	...	...	...	
„ 29	N	e	4 15 58	...	...	...	Slight, near.
		i	21 5	...	...	...	
		F	43 ...	...	...	...	
„ 29	N	e	8 44 7	...	...	...	Slight, near.
		i	50 5	...	...	...	
		F	Lost in congestion of lines.				
„ 29	N	e	23 0 1	...	...	...	Slight.
		i	4 16	...	...	...	
		i	5 42	...	...	...	
		e	7 36	...	...	...	
		M	9 38	...	...	...	
		Mn	15 11 10	...		...	
		F	Lost in microseisms.				
Nov. 30 and Dec. 1	N	P	23 54 5	...	...	4650	Slight. Near Celebes Islands. O: 23 h. 46 m. 6 s. G. M.T.
		PR_1	55 33	...	...	...	
		S	0 0 30	...	...	...	
		SR_1	3 6	...	...	...	
		SR_2	3 58	...	...	...	
		L	6 20	...	...	...	
		M	9 12	...	...	...	
		Mn	13 52	...	...	...	
		F	Lost in microseisms.				
Dec. 1	N	P	6 16 5	...	...	3650	Slight.
		PR_1	17 1	...	...	...	Epc: 30°·5 N., 122°E.
		S	21 30	...	...	...	O: 6h. 9m. 27s. G. M. T.
		L	25 29	...	...	...	
		F	Lost in congestion of lines.				
„ 2	N	e	3 55 31	...	...	...	Slight, near.
		e	57 35	...	...	...	
		i	58 5	...	...	...	
		F	Lost in microseisms.				
„ 2	N	e	18 39 30	...	...	...	Tremors.
		F	53 ...	...	...	...	
„ 3	N	e	0 47 36	...	...	...	
		F	Lost at the time of changing chart.				

TABLE D_3—*concld.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.		1936.			H. M. S.	Sec.	μ	Km.	
Dec. 3	N	e	12 26 17	...	...	...	Slight, near.	Dec. 20	N	P	18 36 4	...	...	3,400	Slight. Epc : South Sumatra, O : 18h. 29m. 35s. G. M. T.
		i	27 1	...	...	...				S	41 14	...	...	...	
		F	32 ...	...	...	...				eL	44 43	...	...	...	
										F	Lost in microseisms				
3	E	e	20 15 35	...	...	..	Slight, near.	,, 21	N	e	19 20 38	...	...	...	Tremors.
		i	20 6	...	...	...				i	27 29	...	...	...	
		F	38 ...	...	...	...				Mn	20 3 36	...	...	...	
,, 4	N	e	22 40 46	...	...	...	Tremors.			F	Lost in microseisms				
		i	50 27	...	...	...		,, 22	N	e	8 4 5	...	...	...	Slight, near.
		F	Lost in microseisms.							i	5 6	...	...	...	
										F	9 ...	...	...	...	
,, 7	N	i	6 22 48	...	...	...	Slight, near.	,, 22	N	e	8 46 44	...	...	...	Tremors.
		F	Lost in microseisms.							i	50 12	...	...	...	
										F	9 1 ...	...	...	...	
,, 7	N	e	16 42 33	...	...	...	Slight, near.	,, 23	N	e	4 23 43	...	...	...	Slight, near.
		i	46 25	...	...	...				i	24 35	...	...	...	
		F	50 ...	...	...	...				F	33 ...	...	...	...	
,, 7	N	e	21 47 36	...	...	...	Slight, near	,, 24	N	e	19 39 43	...	...	...	Tremors.
		i	49 44	...	...	...				i	48 21	...	...	...	
		F	22 2 ...	...	...	...				F	20 14 ...	...	...	...	
,, 9	N	eP (?)	14 56 49	...	..	1060	Slight.	,, 27	N	e	2 29 19	...	...	...	Tremors.
		Sn	58 20	...	...	...				M	40 52	...	...	...	
		S*	58 49	...	...	...				F	3 2 ...	...	...	...	
		Sg	59 24	...	...	...		,, 27	N	*	14 2 57	...	...	...	Tremors.
		F	15 19 ...	...	...	...				M	11 59	...	...		
										F	26 ...	...	...	...	
,, 13	N	e	16 19 35	...	...	...	Tremors.	,, 27	N	i	16 11 40	...	...	...	
		F	52 ...	...	...	...				i	13 45	...	...	...	
										F	51 ...	...	...	...	
,, 13	N	e	21 39 49	...	...	5900	Slight. Epc. 10° N., 141°E. Near Caroline Islands. O : 21h. 31m. 5s. G. M. T.	,, 27	N	e	23 1 33	...	...	...	Slight. very near.
		eP ?	40 19	...	...	...				i	2 13	...	...	...	
		S	47 54	...	...	...				M	2 23	...	...	...	
		SR_1	52 2	...	...	...				F	12 ...	...	...	...	
		SR_2	53 59	...	...	...									
		eL	58 10	...	...	...		,, 28	N	e	17 48 8	...	...	...	Tremors.
		F	23 18 ...	...	...	...				F	18 27 ...	...	...	...	
								,, 29	N	P	14 59 0	...	...	7770	Moderate.
,, 14	N	e	4 9 25	...	...	3850	Slight.			PR^2	15 3 7	...	...	...	Epc : 6°5S., 140°E.
		S	15 3	...	...	...				S	8 14	...	...	...	
		L	19 26	...	...	...				PS	8 47	...	...	...	
		M	22 44	...	...	...				SR_2	15 35	...	...	...	
		Mn	25 2	...	...	...				eL	21 27	...	...	...	
		F	5 30 ...	...	...	...				F	18 11 ...	...	...	...	
,, 18	N	e	15 29 57	...	...	...	Slight, near.	,, 30	N	e	4 23 20	...	...	...	Tremors.
		i	33 30	...	...	...				M	33 4	...	...	...	
		F	45 ...	...	...	...				F	5 4 ...	...	...	...	

S. C. ROY,

Meteorologist, Alipore Observatory, Calcutta.

STATION—SOLAR PHYSICS OBSERVATROY, KODAIKANAL.

Lat. 10° 13′ 50″N., *Long.* 77° 28′ 00″E.

Height above M. S. L. 2,343 m. *Lithologic Foundation* : Rock.

Instruments : Milne-Shaw Seismograph East-West (E) Component.

INSTRUMENTAL CONSTANTS.

Component.	Steady mass. (Kg.)	T. (sec.).	Vm	ε	Paper speed (mm/min.)
E-W	0·45	11·5	250	20 : 1	8

TABLE D. 4.

Date.	Compt.	Phase.	G. M. T	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Jan. 2	E	e	0 59 ...	...	...	...	Tremors.
		F	1 53 ...	...	...	...	
,, 3	E		Tremors. Lines overlapping.				
,, 3	E	iP	22 39 37	...	...	2,645	
		iS	43 55	...	...	...	
		SR_1	45 2	...	...	...	
		L	46 20	...	...	...	
		Mn ?	48 30	17	184	...	
,, 3	E	e	6 31 ...	...	...	...	Tremors.
		F	33 ...	...	...	...	
,, 4	E	e	4 20 ...	...	...	...	Tremors.
		F	5 5 ...	...	...	...	
,, 4	E	e	6 8 ...	...	...	...	Tremours.
		F	44 ...	...	...	...	
,, 7	E	e	2 49 ...	...	...	...	Tremors.
		F	?	...	...	...	Lines overlapping.
,, 7	E		?	...	...	...	Lines overlapping.
,, 8	E	e	11 7 ...	...	...	...	Tremors.
		F	30 ...	...	...	...	Lines overlapping.
,, 9	E		?	...	...	...	Lines overlapping.
,, 10	E	e	21 52 ...	...	...	...	Lines overlapping.
		F	22 8 ...	...	...	...	
,, 13	E	eP	18 18 54	...	...	1855	
		iS	17 7	...	...	...	
		L	18 11	...	...	...	
		Mn	19 40	11	15	...	
,, 14	E	e	5 54 ...	...	...	...	Distant
		F	7 49 ...	...	...	...	
,, 14	E	e	14 30 ...	...	...	...	Distant.
	E	F	15 56 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Jan. 14	E	e	17 54 ...	...	...	...	Distant.
		F	19 17 ...	...	...	...	
,, 15	E	P	14 55 33	...	...	...	Slight. Phases no clear.
		F	16 8 ...	...	...	...	
,, 18	E		(?)	...	...	...	Slight. Lines overlapping. Tremors.
,, 24	E	e	16 53 ...	...	...		
		F	17 15 ...	...	...	...	
,, 27	E	eP	20 2 52	...	...	...	Feeble.
		F	28 ...	...	...	...	
Feb. 4	E	eP	12 23 00	...	...	1060	Feeble.
		iS	24 52	...	...	...	
		Mn	26 41	4	3	...	
		F	13 09 ...	...	...	...	
,, 6	E	iP	4 09 41	...	...	2620	
		iS	13 57	...	...		
		ISR_1	14 56	...	...	...	
		iL	15 56	...	...	...	
		F	5 58 ...	...	...	...	
,, 7	E	iP	9 03 20	...	...	3595	
		PR_1	04 13	...	...		
		PR_2	04 35	...	...	...	
		iS	08 42	...	...		
		SR_1	10 34	...	...		
		L	12 35	...	...		
		Mn	22 02	18	27	...	
		F	10 47 ...	...	...	...	
,, 8	E	iP	12 22 21	...	...	7530	
		iS	31 24	...	...	...	
		PS	31 50	...	...	...	
		F	13 30 ...	...	...	...	

TABLE D$_4$—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Feb. 11	E	eP	4 51 12	...	...	2590	
		iS	55 25	...	...	...	
		iSR$_1$	56 10	...	...	...	
		iL	57 18	...	...	...	
		Mn	57 50	5	9	...	
		F	5 34 ...	...	...	...	
,, 11	E	e	20 12 08	...	...	...	Feeble.
		F	28 ...	...	...	...	
,, 15	E	e	11 40 ...	...	...	...	Tremors.
		F	12 08 ...	...	...	...	
,, 15	E	iP	12 56 48	...	...	6215	
		iS	13 04 41	...	...		
		PS	05 13	...	...	...	
		SR$_1$	08 36	...	...	...	
		SR$_2$	10 31	...	...	...	
		L	14 20	...	...	...	
		Mn	19 53	24	66	...	
		F	16 09 ...	...	...	...	
,, 18	E		(?)	...	...	...	Slight. Lines overlapping; times not readable.
,, 21	E	e	6 26 ...	...	...	...	Distant, feeble.
		F	7 24 ...	...	...	...	
,, 21	E		(?)	...	...	...	Feeble. Lines overlapping, times not readable.
,, 22	E	eP	15 45 28	...	...	9645	
		iS	56 07	...	...	...	
		SR$_1$	16 02 55	...	...		
		SR$_2$	06 23	...	...	...	
		L	16 20	...	...	...	
		Mn	20 58	23	22	...	
		F	(?)	...	...	...	Not readable, lines overlapping.
,, 22	E		(?)	...	...	...	Lines overlapping.
,, 24	E	e	5 48 ...	...	...	...	
		F	6 12 ...	...	...	...	
,, 26	E		(?)	...	...	...	Lines overlapping, times not readable.
,, 27	E	iP	10 13 10	...	...	5540	
		iS	20 25	...	...	...	
		L	27 46	...	...	...	
		Mn	35 44	20	8	...	
		F	11 43 ...	...	...	...	
,, 28	E	eP	16 23 00	...	...	4235	
		iS	29 02	...	...	...	
		SR$_1$	32 06	...	...	...	
		SR$_2$	32 56	...	...	...	
		L	35 00	...	...	...	
		Mn	30 11	16	7	...	
		F	(?)	...	...	...	Lines overlapping.

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Mar. 1	E	eP	10 32 15	...	...	6870	Epc: South of Sakhalin Island. (Chiufeng).
		ePR$_1$	35 00	...	...	...	
	E	S	40 45	...	...	...	
		I	41 41	...	...	...	
		iSR$_1$	45 26	...	...	...	
		iL	52 40	...	...	...	
		Mn	56 27	21	13	...	
		F	12 46 ...	...	...	...	
,, 2	E	iP	3 29 53	...	...	7395	Epc: East off Hokkaido, Japan.
		iPR$_1$	32 20	...	...	...	
		S	38 50	...	...	...	
		iSR$_1$	43 2	...	...	...	
		L	51 00	...	...	...	
		Mn	4 3 17	19	8	...	
		F	5 05 ...	...	...	...	
,, 17	E	eP	19 54 39	...	...	2565	Epc: North Sumatra. (Batavia).
		iS	58 41	...	...	...	
		L	20 00 37	...	...	...	
		Mn	02 42	19	5	...	
		F	21 8 ...	...	...	...	
,, 18	E	e	3 13 ...	...	...	...	Tremors.
		F	3 27 ...	...	...	...	
,, 18	E	e	12 00 48	...	...	...	Tremors.
		F	12 25 ...	...	...	...	
,, 18	E	iP	22 28 21	...	...	2420	Feeble. Epc: North Sumatra. (Batavia).
		iS	32 21	...	...	...	
		L	34 29	...	...	...	
		Mn	37 03	19	2	...	
		F	23 03 ...	...	...	...	
,, 21	E	eP	1 58 17	...	...	3090	
		eS	2 03 07	...	...	...	
		iL	05 50	...	...	...	
		Mn	07 53	11	12	...	
		F	3 16 ...	...	...	...	
,, 22	E	iP	12 28 24	...	...	8985	
		iS	38 34	...	...	...	
		SR$_1$	44 05	...	...	...	
		SR$_2$	47 24	...	...	...	
		Mn	... ...	...	...	...	
		F	13 59 00	...	...	...	
April 1	E	Earthquake shock of great intensity—Record went out of the sheet.					
		F	6 54 ...	...	...	...	
,, 1	E	eP	20 19 45	...	...	5180	Preceded by a tremor. Aftershock of the great shock of April 1.
		iS	26 40	...	...	...	
		iPS	27 20	...	...	...	
		iSR$_2$	29 38	...	...	...	
		L	39 40	...	...	...	
		Mn	44 25	17	13	...	
		F	22 42 ...	...	...	...	

TABLE D$_4$—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
April 2	E	iP	7 28 35	...	...	...	Long, distant.
		F	10 25 ...	...	...	...	Phases not clear.
„ 5	E		?	...	...	...	Tremors. No time marks.
„ 6	E		?	...	...	...	Tremors. No time marks.
„ 9	E	eP	16 15 11	...	...	...	Tremors.
		F	17 40 ...	...	...	...	
„ 10-11	E			...	...	...	Tremors. Lines lost. Times not readable.
„ 11	E	e	4 01 38	...	...	...	Tremors.
		F	43 ...	...	...	...	
„ 11				...	...	...	Tremors. Lines overlapping.
„ 12	E	iP	21 1 03	...	...	6430	Epc: 10° N., 140° E. (Manila). O: 20h. 51m. 10s. G. M. T.
		iPR$_2$	4 26	...	...	...	
		iS	9 08	...	...	...	
		L	24 20	...	...	...	
		Mn	29 53	17	18	...	
		F	23 9 ...	...	...	...	
„ 19	E	iP	5 19 30	...	...	9100	Epc: 6° S., 156° E., (J. S. A.).
		S	29 45	...	...	...	Time marks not clear.
		SR$_2$(?)	40 17	...	...	...	
		L	45 ...	...	...	...	
„ 19	E	iP	9 8 32	...	...	2365	
		iS	12 27	...	...	...	
		F	12 15 ...	...	...	...	
„ 20	E		(?)	...	...	...	Feeble. Lines overlapping.
„ 21	E	e	1 5 ...	...	...	...	
		F	3 4 ...	...	...	...	
„ 21	E	e	10 48 ...	...	...	...	
		F	11 12 ...	...	...	...	
„ 23	E	e	23 27 ...	...	...	...	
		F	0 42 ...	...	...	...	
„ 24	E	e	13 7 ...	...	...	...	
		F	13 31 ...	...	...	...	
„ 24	E		(?)	...	...	...	Feeble. No time mark.
„ 27	E	e	0 05 ...	...	...	...	Slight.
		F	1 25 ...	...	...	...	Phases not clear.
„ 28	E	e	5 49 ...	...	...	...	Slight.
		F	7 30 ...	...	...	...	
„ 28	E	e	13 45 ...	...	...	...	Tremors.
		F	14 14 ...	...	...	...	
May 3	E		(?)	...	...	...	Tremors. No. time marks.
„ 8	E	eP	3 02 58	...	...	...	Slight.
		F	3 13 ...	...	...	...	
May 8	E	eP	9 18 12	...	...	...	Slight, distant.
		F	9 58 ...	...	...	...	
„ 12	E			...	...	...	Lines overlapping.
„ 16	E	iP	7 12 05	...	...	4185	
		PR$_1$	7 12 46	...	...	...	
		PR$_2$	7 13 03	...	...	...	
		S	7 17 04	...	...	...	
		SR$_1$	7 18 27	...	...	...	
		F	8 46 ...	...	...	...	
„ 19	E	eP	6 33 ...	...	...	...	Tremors.
		F	6 53 ...	...	...	...	
„ 19	E	eP	20 57 14	...	...	...	Distant. F merged in another shock.
„ 19	E	e	21 22 57	...	...	...	
		e	27 00	...	...	...	
		L ?	29 00	...	...	...	
„ 19	E	i	21 35 50	...	...	...	
		i	39 59	...	...	...	
		L	42 02	...	...	...	
		Mn	45 24	15	4	...	
		F	22 1 ...	...	...	...	
„ 20	E	iP	3 17 53	...	...	9130	Epc: 8°S., 160°E. (J. S. A.)
		PR$_1$	21 03	...	...	...	
		PR$_2$	23 02	...	...	...	
		iS	28 10	...	...	...	
		ePS	28 53	...	...	...	
		SR$_1$	32 45	...	...	...	
		SR$_2$	36 10	...	...	...	
		L	45 00	...	...	...	
		F	5 10 ...	...	...	...	
„ 20	E	e	5 22 12	...	...	...	Tremors.
		F	51 ...	...	...	...	
„ 27	E	iP	6 23 34	...	...	2120	
		iPR$_1$	23 51	...	...	...	
		iS	27 00	...	...	...	
		iSR$_2$	27 54	...	...	...	
		L	28 52	...	...	...	
		Mn (?)	(?)	...	40·0	...	Amplitude 40·0 mm. Period not possible to determine.
		F	8 5 ...	...	...	...	
„ 28	E	e	20 07 00	...	...	...	Tremors.
		F	43 ...	...	...	...	
June 9	E	e	0 10 26	...	...	...	
		i	0 12 12	...	...	...	
		F	0 26 ...	...	...	...	

TABLE D$_4$—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec	μ	Km.	
1936.							
June 9	E	iP	16 41 41	...	...	2655	
		PR_1	42 12	...	...	...	
		iS	46 00	...	...	...	
		SR_1	47 01	...	...	...	
		L	48 09	...	...	...	
		M	50 10	18	19	...	
		F	18 15 ...	...	...	...	
,, 10	E	e	3 11 ...	...	...	...	Tremors.
		F	24 ...	...	...	...	
,, 10	E	eP	3 33 44	...	...	2290	
		PR_1	34 1	...	...	...	
		iS	37 33	...	...	...	
		SR_1	38 18	...	...	...	
		L	39 23	...	...	...	
		Mn	41 50	10	19	...	
		F	4 41 ...	...	...	...	
,, 10	E	eP	3 34 26	...	...	7635	
		PR_2	37 06	...	...	...	
		iS	43 34	...	...	...	
		PS	44 12	...	...	...	
		SR_1	48 22	...	...	...	
		SR_2	51 02	...	...	...	
		L	56 51	...	...	...	
		Mn	9 06 07	14	10	...	
		F	10 34 ...	...	...	...	
,, 10	E	e	14 49 25	...	...	...	Tremors.
		F	15 06 ...	...	...	...	
,, 10	E	eP	17 19 27	...	...	1440	
		eS	22 01	...	...	...	
		SR_1	22 27	...	...	...	
		L	22 54	...	...	...	
		M	23 55	11	6	...	
		F	18 03 ...	...	...	...	
,, 18	E	iP	15 01 01	...	...	1920	
		eS	04 20	...	...	...	
		SR_1	05 01	...	...	...	
		L	05 41	...	...	...	
		Mn	06 46	4	4	...	
		F	21 ...	...	...	...	
,, 19	E	eP	16 40 05	...	...	2655	
		S	44 24	...	...	...	
		F	17 13 ...	...	...	...	
,, 29	E	eP	14 36 15	...	...	2400	
		S	40 18	...	...	...	
		SR_1	41 03	...	...	...	
		L	42 06	...	...	...	
		M	44 06	6	24	...	
		F	15 14 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1936.							
June 30	E	iP	15 18 30	...	...	8445	
		iPR_1	21 29	...	...	...	
		PR_2	23 15	...	...	...	
		iS	28 26	...	...	...	
		PS	29 07	...	...	...	
		iSR_1	33 35	...	...	...	
		iSR_2	36 39	...	...	...	
		L	43 26	...	...	...	
		Mn	56 42	19	111	...	
		F	18 15 ...	...	...	...	
,, 30	E	e	19 35 16	...	...	...	Feeble.
		F	20 16 ...	...	...	...	
July 4	E	iP	9 2 00	...	...	2420	
		PR_2	2 37	...	...	...	
		iS	6 00	...	...	...	
		SR_2	6 53	...	...	...	
		L	7 50	...	...	...	
		F	45 ...	...	...	...	
,, 5	E	iP	19 4 2	...	...	3220	Deep focus. Epc : 4°·0 N., 124° E. (J. S. A.).
		pP	4 19	...	...	...	
		PR_1	5 44	...	...	...	
		iPR_2	6 14	...	...	...	
		iS	10 57	...	...	...	
		sS	11 35	...	...	...	
		SR_2	15 24	...	...	...	
		L	18 02	...	...	...	
		Mn	19 53	15	23	...	
		F	20 14 ...	...	...	...	
,, 6	E	e	18 37 ...	...	...	...	Tremors.
		F	19 7 ...	...	...	...	
,, 8	E	iP'	11 31 54	...	...	17000	Epc : 23°·0 S., 70°·2 W. (J. S. A.).
		PR_1	35 38	...	...	...	
		PR_2	38 53	...	...	...	
		ScPc Pcs	42 22	...	...	...	
		P ScPcS	45 40	...	...	...	
		SR_1	55 15	...	...	...	
		Mn	25 21	27	191	...	
		F	14 22 ...	...	...	...	
,, 26	E	e	8 48 ...	...	...	...	Tremors.
		F	9 21 ...	...	...	...	
,, 28	E	e	5 29 ...	...	...	...	Tremors.
		F	6 37 ...	...	...	...	
,, 28	E	e	8 12 ...	...	...	...	Tremors.
		F	9 11 ...	...	...	...	
Aug. 1	E	e	6 37 ...	...	...	...	Feeble.
		F	7 14 ...	...	...	...	

TABLE D$_4$—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1936.							
Aug. 4	E	eP	14 17 45	...	...	4460	Epc: 19° N., 121° E. (Manila).
		S	24 0	...	...	...	
		iSR$_3$	27 25	...	...	...	
		L	31 50	...	...	...	
		Mn	34 45	23	8	...	
		F	15 0 ...	...	...	...	
„ 8	E	e	4 41 ...	...	...	...	Tremors.
		F	5 4 ...	...	...	...	
„ 13	E	e	3 1 ...	...	...	...	Tremors.
		F	33 ...	...	...	...	
„ 13	E	iP	20 11 23	...	...	5165	Epc: 8° N., 127° E. (Manila).
		iPR$_1$	13 16	...	...	...	
		S	18 17	...	...	...	
		iSR$_1$	22 14	...	...	...	
		iSR$_2$	23 40	...	...	...	
		L	26 57	...	...	...	
		Mn	35 30	19	15	...	
		F	21 19 ...	...	...	...	
„ 14	E	e	22 43 ...	...	...	...	Tremors.
		F	28 10 ...	...	...	...	
„ 20	E	e	23 43 ...	...	...	...	Feeble.
		F	54 ...	...	...	...	
„ 22	E	iP	6 59 40	...	...	4735	Epc: 22°·3 N., 121°·5 E. (J. S. A.). Formosa Island.
		iS	7 6 10	...	...	...	
		iSR$_1$	8 55	...	...	...	
		iSR2	9 55	...	...	...	
		iL	12 22	...	...	...	
		Mn	17 10	24	40	...	
		F	8 47 ...	...	...	...	
23	E	iP	20 49 53	...	...	1805	
		iS	53 7	...	...	...	
		L	54 6	...	...	...	
		Mn	56 0	10	8	...	
		F	Merged in the next shock.				
„ 23		iP	21 16 21	...	...	1095	Epc: 5°·8 N., 95°·4 E. (J. S. A.). Off North Sumatra.
		iS	19 46	...	...	...	
		Mn	22 34	18	257	...	
		F	0 15 ...	...	...	...	
„ 24	E	e	22 44 ...	...	...	...	Tremors.
		F	23 26 ...	...	...	...	
„ 27	E	e	3 8 ...	...	...	...	Feeble.
		F	38 ...	...	...	...	
„ 28	E	e	2 4 ...	...	...	...	Feeble.
		F	27 ...	...	...	...	
„ 28	E	e	6 5 ...	...	...	...	Tremors.
		F	7 4 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1936.							
Aug. 29	E	e	12 52 ...	...	...	...	Tremors.
		F	13 11 ...	...	...	...	
„ 29	E	iP	22 26 38	...	...	2255	
		iS	30 24	...	...	...	
		SR$_1$	31 8	...	...	...	
		L	32 0	...	...	...	
		Mn	33 8	13	5	...	
		F	23 38	...	...	...	
Sept. 3	E	e	12 36 ...	...	...	...	Feeble.
		F	13 54 ...	...	...	...	
„ 4	E	e	8 20 9	...	...	...	Feeble.
		F	9 43 ...	...	...	...	
„ 6	E	e	18 4 48	...	...	...	Tremors.
		F	19 42 ...	...	...	...	
„ 7	E	e	2 40 10	...	...	...	Feeble.
		F	3 18 ...	...	...	...	
„ 7	E	e	12 42 ...	...	...	...	Tremors.
		F	13 44 ...	...	...	...	
„ 12	E	e	18 19 ...	...	...	...	Tremors.
		F	54 ...	...	...	...	
„ 17	E	e	17 33 28	...	...	...	Tremors.
		F	18 32 ...	...	...	...	
„ 18	E	e	18 48 58	...	...	...	Feeble.
		F	20 14 ...	...	...	...	
„ 19	E	iP	1 06 32	...	...	2355	Epc: North Sumatra, 4°·3 N., 97°·8 E. (J.S.A.).
		iS	10 26	...	...	...	
		iSR$_1$	11 13	...	...	...	
		L	12 19	...	...	...	
		Mn	16 02	15	286	...	
		F	5 27 ...	...	...	...	
„ 19	E	iP	6 35 10	...	...	2335	
		iPR$_1$	35 30	...	...	...	
		iPR$_2$	35 38	...	...	...	
		iS	39 02	...	...	...	
		SR$_1$	39 47	...	...	...	
		L	40 44	...	...	...	
		M	42 34	20	29	...	
		F	8 55 ...	...	...	...	
„ 20	E	e	4 8 12	...	...	...	Tremors.
		F	45 ...	...	...	...	
„ 20	E	e	12 45 ...	...	...	...	Tremors.
		F	55 ...	...	...	...	
„ 21	E	e	12 0 ...	...	...	...	Tremors.
		F	13 9 ...	...	...	...	
„ 24	E	e	8 31 54	...	...	...	Feeble.
		F	9 25 ...	...	...	...	

TABLE D_4—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Sept. 25	E	e	13 20 09	...	...	...	Slight, very distant.
		e	23 37	...	...	...	
		e	25 46	...	...	...	
		L(?)	50 53	...	...	...	
		M	58 09	24	15	...	
		F	14 54 ...	...	...	...	
Oct. 3	E	iP	21 58 32	...	...	4995	Epc: Celebes Sea O: 21h. 50m. 20s. G.M.T.
		iS	22 5 16	...	...	...	
		iSR_1	8 23	...	...	...	
		iL	12 18	...	...	...	
		Mn	22 13	17	43	...	
		F	0 6 ...	...	...	...	
„ 4	E	e	7 18 ...	...	...	...	Tremors.
		F	8 38 ...	...	...	...	
„ 5	E	e	0 12 23	...	...	...	
		i	14 52	...	...	...	
		e	21 53	...	...	...	
		Mn	50 43	24	15	...	
		F	2 2 ...	...	...	...	
„ 5	E	eP	6 16 56	...	...	4695	
		iS	23 24	...	...	...	
		L	29 50	...	...	...	
		Mn	34 47	19	4	...	
		F	7 4 ...	...	...	...	
„ 5	E	iP	9 53 10	...	...	5250	Epc: 3°N., 126°·4E. (J.S.A.). O: 0h. 44m. 38s. G.M.T.
		iPR_1	54 51	...	...	...	
		iPR_2	55 30	...	...	...	
		iS	10 0 09	...	...	...	
		iSR_1	8 05	...	...	...	
		iL	7 10	...	...	...	
		Mn	12 50	25	235	...	
		F	12 50 ...	...	...	...	
„ 7	E	e	17 25 ...	...	...	...	Feeble.
		F	49 ...	...	...	...	
„ 10	E	e	3 17 ...	...	...	...	Tremors.
		F	4 10 ...	...	...	...	
„ 13	E	e	6 41 ...	...	...	...	Tremors.
		F	7 23 ...	...	...	...	
„ 14	E	e	22 35 ...	...	...	...	Tremors.
		F	23 37 ...	...	...	...	
„ 15	E	e	21 31 ...	...	...	...	Tremors.
		F	23 13 ...	...	...	...	
„ 16	E	e	12 8 ...	...	...	...	Feeble.
		F	57 ...	...	...	...	
„ 18	E	e	16 48 ...	...	...	...	Tremors.
		F	17 25 ...	...	...	...	

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1936.							
Oct. 19	E	iP	12 13 15	...	...	5455	Epc: Off Celebes.
		iPR_1	15 06	...	...	...	
		iS	20 25	...	...	...	
		iSR_1	23 50	...	...	...	
		iSR_2	25 02	...	...	...	
		iL	28 28	...	...	...	
		Mn	36 50	16	13	...	
		F	14 10 ...	...	...	...	
„ 20	E	e	22 18 ...	...	...	...	Tremors.
		F	44 ...	...	...	...	
„ 21	E	e	2 1 ...	...	...	...	Tremors.
		F	42 ...	...	...	...	
„ 21	E	e	5 33 ...	...	...	...	Tremors.
		F	6 13 ...	...	...	...	
„ 22	E		(?)				Tremors. Lines overlapping. Phases not readable.
„ 23	E	eP	6 38 19	...	...	11200	Epc: 60°·8N., 149°·4W. (J.S.A.), Alaska. O: 6h. 24m. 24s. G.M.T.
		iPR_1	42 20	...	...	...	
		iScPcS	48 54	...	...	...	
		S	50 4	...	...	...	
		iPS	51 13	...	...	...	
		iPPS	52 2	...	...	...	
		iSR_1	57 2	...	...	...	
		iSR_2	7 0 44	...	...	...	
		iL	11 16	...	...	...	
		Mn	18 37	26	155	...	
		F	9 40 ...	...	...	...	
„ 26	E	iP	19 37 25	...	...	2800	Minute marks not clear.
		iS	41 54	...	...	...	Epc: West of Malay Peninsula.
		iL	46 0	...	...	...	O: 19h. 32m. 18s. G.M.T.
		Mn	48 12	16	44	...	
		F	21 11 ...	...	...	...	
„ 26-27	E	e	23 35 ...	...	...	...	Tremors.
		F	0 11 ...	...	...	....	
„ 29	E	eP	18 49 37	...	...	7000	Epc.: 13°·5 N., 145° E. Damage in Guam. O: 18h. 39m. 8s. G.M.T.
		PR_1	52 00	...	...	...	
		S	58 14	...	...	...	
		L	19 9 50	...	...	...	
		F	20 14 ...	...	...	...	
„ 31	E	e	15 50 ...	...	...	...	Tremors.
		F	16 11 ...	...	...	...	
Nov. 2	E	iP	15 09 22	...	...	8060	Epc: 48°·5 N., 149°·5 E. Near Kurile Islands. O: 14h. 58m. 2s. G.M.T.
		PR_1	12 12	...	...	...	
		iS	18 51	...	...	...	
		iSR_1	23 32	...	...	...	
		iL	33 46	...	...	...	
		Mn	47 25	19	18	...	
		F	17 57 ...	...	...	...	

TABLE D_4—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Nov. 2-3	E	iP	20 56 26	...	...	6915	Minute marks not clear.
		iPR_1	58 37	...	...	...	Epc : 41° N., 139° E. Destructive in Fukujama, Japan.
		iPR_2	21 0 20	...	...	...	Kew △ = 83° 5.
		iS	4 59	...	...	...	O : 20h. 6m. 11s. G. M. T.
		iPS	5 17	...	...	...	
		iSR_1	9 4	...	...	...	
		iSR_2	11 12	...	...	...	
		iL	15 44	...	...	...	
		Mn	20 12	30	63	...	
		F	0 2 ...	...	...	...	
„ 3	E	e	5 21 ...	...	...	...	Tremors.
		F	55 ...	...	...	...	
„ 4	E	e	7 30 ...	...	...	...	Feeble.
		F	8 39 ...	...	...	...	
„ 4	E	e	9 18 ...	...	...	...	Tremors.
		F	45 ...	...	...	...	
„ 4	E	e	13 54 ...	...	...	...	Tremors.
		F	14 8 ...	...	...	...	
„ 9	E	e	6 34 ...	...	...	...	Tremors.
		F	57 ...	...	...	...	
„ 9	E	e	7 59 ...	...	...	...	Feeble.
		F	8 21 ...	...	...	...	
„ 9	E	e	8 54 ...	...	...	...	Feeble.
		F	9 48 ...	...	...	...	
„ 9	E	e	14 8 ...	...	...	...	Feeble.
		F	15 7 ...	...	...	...	
„ 9	E	e	20 12 ...	...	...	...	Tremors.
		F	23 ...	...	...	...	
„ 10	E	e	1 6 ...	...	...	...	Tremors.
		F	32 ...	...	...	...	
„ 10	E	e	3 17 ...	...	...	...	Tremors.
		F	50 ...	...	...	...	
„ 10	E	e	3 58 ...	...	...	...	Tremors.
		F	4 32 ...	...	...	...	
„ 10	E	e	5 8 ...	...	...	...	Tremors.
		F	36 ...	...	...	...	
„ 10	E	e	6 16 ...	...	...	...	Tremors.
		F	34 ...	...	...	...	
„ 10	E	e	11 39 ...	...	...	...	Tremors.
		F	50 ...	...	...	...	
„ 10	E	e	12 51 ...	...	...	...	Tremors.
		F	14 5 ...	...	...	...	
„ 10	E	e	16 21 ...	...	...	...	Tremors.
		F	41 ...	...	...	...	
„ 10	E	e	17 55 ...	...	...	...	Tremors.
		F	18 38 ...	...	...	...	
„ 10	E	e	20 2 ...	...	...	...	Tremors.
		F	24 ...	...	...	...	
„ 10-11	E	e	23 13 ...	...	...	...	Feeble. Line overlapping.
		F	0 5 ...	...	...	...	
„ 11	E	e	4 46 ...	...	...	...	Tremors.
		F	5 15 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.	
Nov. 11	E	iP	17 22 00	...	...	1500	
		iS (?)	24 26	...	...	...	
		L	25 11	...	...	...	
		Mn	26 40	10	14	...	
		F	56 ...	...	...	...	
„ 12	E	e	2 35 ...	...	...	...	Feeble. Lines overlapping.
		F	3 11 ...	...	...	...	
„ 13	E	e	10 5 ...	...	...	...	Tremors.
		F	19 ...	...	...	...	
„ 13	E	iP	12 43 35	...	...	8695	Epc: 56°N., 165°E. (Strasbourg). O : 12h. 31m. 29s. G.M.T.
		iPR_1	46 40	...	...	...	
		iPR_2	48 34	...	...	...	
		iS	53 33	...	...	...	
		iPS	54 26	...	...	...	
		iSR_1	59 09	...	...	...	
		iSR_2	13 2 37	...	...	...	
		iL	10 2	...	...	...	
		Mn	16 35	24	403	...	
		F	16 49 ...	...	...	...	
„ 14	E	PR_1	4 33 08	...	...	1690	
		S	35 55	...	...	...	
		iSR_1	36 28	...	...	...	
		iL	36 56	...	...	...	
		Mn	38 01	16	8	...	
		F	5 33 ...	...	...	...	
„ 15-16	E	e	22 8 ...	...	...	...	Feeble, long distance.
		F	0 3 ...	...	...	...	
„ 16-17	E	e	23 49 ...	...	...	...	Tremors.
		F	0 3 ...	...	...	...	
„ 17	E	e	15 56 ...	...	...	...	Tremors.
		F	16 14 ...	...	...	...	
„ 18	E	e	16 5 ...	...	...	...	Tremors.
		F	17 11 ...	...	...	...	
„ 19	E	eP'$_1$	21 30 14	...	...	16800	Epc : 14°N., 91°W. (U. S. C. G. S.).
		$\underline{PR_1}$	33 49	...	...	...	
		$\underline{iScPcP}$	33 48	...	...	...	
		$\underline{PR_2}$	37 5	...	...	...	
		$\underline{ScPc\ PcS}$	40 30	...	...	...	
		$\underline{iPScPcS}$	44 17	...	...	..	
		iPPS	47 10	...	...	...	
		iSR_1	53 35	...	...	...	
		SR_2	59 3	...	...	...	
		eL	22 21 47	...	...	...	
		Mn	45 42	20	20	...	
		F	23 32 ...	...	...	...	

TABLE D_4 —*concld.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.	Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1936.			H. M. S.	Sec.	μ	Km.		1936.			H. M. S.	Sec.	μ	Km.	
Nov. 22	E	e	15 3 ...	...	...	...	Feeble. No minute marks.	Dec. 13	E	e	21 41 ...	...	...	...	Feeble.
		F	16 15 ...	...	...	...				F	22 38 ...	...	...	...	
,, 22	E	e	18 40 ...	...	...	...	Feeble. Times approximate.	,, 14	E	e	4 5 ...	...	...	...	Feeble.
		F	20 45 ...	...	...	...				F	5 3 ...	...	...	...	
,, 23	E	e	1 39 ...	...	...	...	Feeble. Times approximate.	,, 14	E	e	6 34 ...	...	...	...	Tremors.
		F	2 5 ...	...	...	...				F	7 3 ...	...	...	...	
,, 23	E	e	15 57 ...	...	...	...	Tremors.	,, 18	E	e	15 20 ...	...	...	...	Tremors.
		F	16 7 ...	...	...	...				F	44 ...	...	...	...	
,, 23	E	e	18 38 ...	...	...	...	Tremors.	,, 20	E	e	4 5 ...	...	...	...	Tremors.
		F	50 ...	...	...	...				F	30 ...	...	...	...	
,, 29	E	e	4 19 ...	...	...	...	Tremors.	,, 20	E	iP	18 35 50	...	...	3355	Epc : South Sumatra. O : 18 h. 29m. 35s. G. M. T.
		F	39 ...	...	...	...				iS	40 57	...	...	...	
										iSR_1	42 39	...	...	...	
,, 29	E	e	8 39 ...	...	...	...	Tremors.			L	44 46	...	...	...	
		F	10 9 ...	...	...	...				Mn	47 25	19	11	...	
,, 30	E	iP	23 54 44	...	...	5345	Lines overlapping. Epc : Near Celebes Islands. O : 23h. 46m. 6s. G. M. T.			F	19 59 ...	...	...	...	
Dec. 1		iPR_2	57 17	...	...	...		,, 21	E	e	19 21 ...	...	...	...	Tremors.
		iS	0 1 43	...	...	...				F	20 57 ...	...	...	...	
		iSR_1	4 57	...	...	...		,, 26	E	PR_1	23 11 19	...	...	11890	Coda superposed by another shock.
		iSR_2	6 2	...	...	...				iScPcS	17 32	...	...	...	Epc : North of New Zealand. (Chicufeng).
		eL	9 5	...	...	...				PS	20 44	...	...	...	
		Mn	18 32	18	10	...				eSR_1	26 40	...	...	...	
		F	1 23 ...	...	...	...				Mn	49 35	25	9	...	
,, 1	E	iP	6 18 00	...	...	5270	Epc : 30°·5N., 122° E. O : 6h. 9m. 27s. G. M. T.	,, 27	E	e	14 32 ...	...	...	...	Tremors. Lines overlapping.
		PR_1	19 55	...	...	...				F	48 ...	...	...	...	
		PR_2	20 45	...	...	...			E	e	16 11 ...	...	...	...	Tremors. Lines overlapping.
		iS	25 0	...	...	...				F	36 ...	...	...	...	
		L	32 48	...	...	...									
		F	7 18 ...	...	...	...		,, 29	E	iP	14 59 42	...	...	8405	Epc : 6°·5S., 149° E.
										iS	15 9 27	...	...	...	
,, 8	E	e	10 33 ...	...	...	...	Tremors.			iSR_2	16 58	...	...	...	
		F	11 23 ...	...	...	...				iL	23 0	...	...	...	
,, 9	E	e	14 57 ...	...	...	...	Tremors.			Mn	27 58	42	60	...	
		F	15 14 ...	...	...	...				F	17 45 ...	...	...	...	

T. ROYDS,
Director, Kodaikanal Observatory.

The following table contains a list of earthquakes that are reported by voluntary observers from various stations.

TABLE D_5.

Place at which felt.	Date.	G.M.T. of earthquake.	Duration.	Intensity (Rossi-Forel scale).	Number of shocks.	Remarks.	Place at which felt.	Date.	G.M.T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	Number of shocks.	Remarks.
	1936.	H. M.	Sec.					1936.	H. M.	Sec.			
Drosh	Jan. 3	23 40	5	3	1		Cooch Behar	June 13	15 20	About 35	4	1	
Drosh	,, 4	00 15	5	3	1		Gauhati	,, 18	14 57	20	6	...	
Drosh	,, 7	11 55	15	5	1		Dhubri	,, 18	14 56	16	7	2	
Drosh	,, 30	22 45	5	3	1		Cherrapunji	,, 18	14 58	30	5	2	
Muktesar	Feb. 4	12 20	4	5	1		Shillong	,, 18	14 58	30	5	1	
Shillong	,, 10	19 57	10	8	1		Shillong	,, 22	04 20	5	4	1	
Gauhati	,, 10	21 45	5	5	1		Srinagar	,, 24	03 52	About 2	7	2	
Dumka	,, 11	04 55	30	3	3		Gulmarg	,, 24	04 03	6	8	2	
Motihari	,, 11	04 57	2	...	...		Drosh	,, 24	03 40	35	5	3	
Cooch Behar	,, 11	20 34	15	6	2		Lahore	,, 29	14 30	30	3	2	
Dhubri	,, 11	20 05	18	7	4		Peshawar	,, 29	14 32	About 60	8	4	
Gauhati	,, 11	20 15	50	5	2		Muzaffarabad	,, 29	14 35	25	4	2	
Salona	,, 11	20 10	8	3	...	Only small vibrations.	Cherat	,, 29	14 28	10	6	4	
Shillong	,, 14	14 48	2	5	1		Multan	,, 29	14 30	About 30	4	1	Continuous tremor.
Salona	,, 14	15 37	15	3	...	Only small vibrations.	Drosh	,, 29	14 30	90	6	3-4	
Salona	Feb. 23	15 08	5	3	...	Only small vibrations.	Kabul	,, 29	14 23	15	4	2	
Gilgit	Mar. 2	20 00	15) 50)	7	2		Srinagar	,, 29	14 30	About 7	9	3	Old walls of ruined buildings have fallen down.
Kalat	,, 2	23 50	3	6	1		Gulmarg	,, 29	14 5	12	9	6	Damages caused to huts.
Dhubri	,, 2	23 36	6	7	2		Sonemarg	,, 29	14 26	73	6	2	
Yatung	,, 4	15 56	6	6	...	Several tremors.	Muzaffarabad	,, 29	14 35	25	4	2	
Dhubri	,, 10	15 46	4	7	1		Dras	,, 29	14 26	60	7	2	
Pachmarhi	Apl. 8	00 28	4	10-15	1		Gilgit	,, 29	14 25	15	5	1	
Dhubri	,, 17	12 19	7	3	1		Rawalpindi	,, 29	14 32	30-40	8	2	
Srinagar	,, 26	12 10	8	abt. 4	2		D. I. Khan	,, 29	14 32	15	7	3	
Jaigad (Ratnagiri District)	,, 29	05 00	5	...	1	Tremor.	Skardu	,, 29	14 43	30	6	2	
Gilgit	May 1	00 27	4	10	1		Kalat	Aug. 9	10 10	...	..	..	
Srinagar	,, 16	03 41	6	abt. 2	1		Gulmarg	Oct. 6	02 15	4	8	2	
Muktesar	,, 27	06 23	5	abt. 40	1	Tremor.	Sandoway	,, 11	12 06	About 1	3	1	
Berhampur	May 27	06 21	3	3	1		Srinagar	,, 21	22 11	About 2	8	1	
New Delhi	,, 27	06 22	8	14	1		Gauhati	Nov. 1	11 09	About 20	6	1	
Cawnpore	,, 27	06 23	3	3	1		Salona	,, 11	03 15	,, 10-15	5	1	
Jaipur	,, 27	06 23	5	Abt. 5	3 or 4		Salona	,, 23	01 09	,, 10	4	...	Only small vibrations.
Katmandu	,, 27	06 22	180	5	2		Dhubri	Dec. 3	12 26	8	8	2	Continuous.
Shillong	,, 30	07 09	8	5	1		Shillong	,, 16	00 34	About 20	4	1	
Gauhati	,, 30	07 10	6	Abt. 20	1		Yatung (Tibet)	,, 25	01 00	About 5	5	1	
Dhubri	,, 30	06 58	7	48	3								
Berhampur	,, 30	07 11	6	4	1								
Salona	June 9	12 58	About 8	3	...	Distinct vibrations.							

J. M. SIL,

Meteorologist, Meteorological Office, Poona.

PUBLICATIONS OF THE INDIA METEOROLOGICAL DEPARTMENT.

(Complete list, including those publications which are now out of print.)

The Indian Meteorologist's Vade Mecum— . . .	H. F. Blanford.
Part I, 2nd Edition (1883) . . . Rs. 3*	
Part II (1877) . . . . . Rs. 5*	
Instructions to Observers of the Indian Meteorological Department, 2nd Edition (1902) . . Rs.3*	Sir John Eliot.
Instructions to Observers at the 2nd and 3rd class Observatories, 2nd Edition (1934) . . . Rs. 1-4	Departmental.
Tables for the Reduction of Meteorological Observations in India, 3rd Edition (1925) . . . . Rs. 5-8	Ditto.
Handbook of Cyclonic Storms in the Bay of Bengal for use of Sailors—	Sir John Eliot.
Vol. I, Text, 2nd Edition (1900) . . Rs. 4*	
Vol. II, Plates, 2nd Edition (1901) . . Rs. 1-8*	
CYCLONE MEMOIRS—	
Part I. Bay of Bengal Cyclone of May 20th to 28th, 1887. (1888) . . . . . Re. 1*	Ditto.
Part II. Bay of Bengal Cyclone of August 21st to 28th, 1888. (1890) . . . . . Rs. 3	Ditto.
Part III. Bay of Bengal Cyclones of September 13th to 20th and October 27th to 31st, 1888, and Arabian Sea Cyclone of November 6th to 9th, 1888. (1890) Rs. 5	Ditto.
Part IV. An enquiry into the nature and course of storms in the Arabian Sea and a catalogue and brief history of all recorded storms in the Arabian Sea from 1848—1889. (1891) . . . . Rs. 3	W. L. Dallas.
Part V. Account of three cyclones in the Bay of Bengal and Arabian Sea during November, 1891. (1893) Rs. 3*	Sir John Eliot.
Report of the Midnapore and Burdwan Cyclone of the 15th and 16th of October, 1874. (1875) . . Rs. 3*	W. G. Wilson.
Report of the Vizagapatam and Backergunge Cyclones of October, 1876. (1877) . . . . . Rs. 3*	Sir John Eliot.
Report on the Madras Cyclone of May, 1877. (1879). Rs. 3*	Ditto.
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